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February 15, 2022

Mr. Dietz II:

Energy Division approves Pacific Gas and Electric Company's (PG&E) Program Year (PY) 2022-2023 Annual Budget Advice Letter #4521-G/6385-E, as filed on November 8, 2021, and supplemented (#4521-G-A/6385-E-A) on January 7, 2022[1], including budget spending and recovery amounts as reflected in Table 1 below.

Table 1. PG&E PY2022-2023 Spending and Recovery Budget Request

PG&E Recovery Breakdown	**2022**	**2023**
Spending Budget Request	$247,653,027	$274,643,728
REN/CCA Funding	$37,855,376	$47,828,424
AB841 Collection	$80,908,048	$69,349,755
Total Recovery Request	$366,416,451	$391,821,907

The Advice Letter is effective January 1, 2022.

Background

On November 8, 2021, PG&E filed Advice Letter #4521-G/6385-E with a request for PY2022 and PY2023 Energy Efficiency funding. On November 29, 2021, The Public Advocates Office (Cal Advocates) filed its protest of PG&E's, Southern California Edison's (SCE) and San Diego Gas and Electric's (SDG&E) Annual Budget Advice Letters. On December 2, 2021, PG&E filed its response to the Cal Advocates protest. On January 7, 2022, PG&E filed supplemental #4521-G-A/6385-E-A, which was not protested.

[1] PG&E filed AL 4521-G-A/6385-E-A at the request of Energy Division in order to update certain assumptions related to fuel substitution measures in the CPUC's Cost-Effectiveness Tool, make clarifications to Codes and Standards Program description and savings, and make other minor corrections.

Cal Advocates Protest

In its protest, Cal Advocates recommends that the California Public Utilities Commission (CPUC) "carefully consider PG&E's, SCE's, and SDG&E's advice letters because they propose credible and achievable savings even if they do not meet the energy savings goals provided by D. 21-09-037."[2] Cal Advocates also notes the "overly ambitious" energy efficiency goals adopted in Decision (D.) 21-09-037, due to certain assumptions regarding Home Energy Report and fuel substitution measures, and states that "while neither PA meets the energy savings goals in the short term, PG&E and SCE both describe strategies in their portfolios intended to promote longer-term development of the market for fuel substation measures and thus work toward the achievement of Commission goals."[3] Cal Advocates concluded its protest by stating that it "supports the PAs' good faith efforts to provide credible savings forecasts and…portfolios that work toward the Commission's fuel substitution goals in the longer term."[4]

PG&E Response to Cal Advocates Protest

On December 2, 2021, PG&E filed its response to the Cal Advocates protest. In its response, PG&E acknowledges that its resource acquisition programs do not meet certain Commission-adopted energy savings goals. PG&E also highlighted Cal Advocates' support for PG&E's PY2022-2023 forecast as "realistic" and in "good faith" and request that the CPUC "carefully consider" PG&E's PY2022-2023 budget advice letter. PG&E concludes by noting that it does meet Commission-adopted energy savings goals for PY2022-2023 (resource acquisition programs + Codes and Standards programs) with the inclusion of energy savings from Codes and Standards programs.[5]

Discussion

Criteria for review of EE Annual/Biannual budget advice letters

In D.21-05-031 (Assessment of Energy Efficiency Potential and Goals and Modification of Portfolio Approval and Oversight Process), the CPUC made changes to ABAL requirements and set the review criteria for the PY 2022-2023 ABAL as follows:

- Forecasted energy savings for 2022 and 2023 shall meet the annual energy savings goals adopted for those program years.[6]
- Budget requests must stay under the cap authorized in D. 18-05-041 for the current business plan period.
- The Total System Benefit (TSB) metric of the portfolio shall be included but will not be considered a basis for the rejection of the ABALs.

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[2] The Public Advocates Office's Protest of Energy Efficiency Biennial Budget Advice Letters for Program Years 2022 and 2023 (Filed November 8, 2021), pp. 1-2.
[3] The Public Advocates Office's Protest of Energy Efficiency Biennial Budget Advice Letters for Program Years 2022 and 2023 (Filed November 8, 2021), p. 3.
[4] Ibid.
[5] PG&E has specific energy savings goals for both resource acquisition and Codes and Standards programs.
[6] See "Discussion" below for additional context for PG&E's PY2022-2023 ABAL.

- Cost-effectiveness ratios, for both the Total Resource Cost (TRC) and Portfolio Administrator Cost (PAC), shall be included for the entire portfolio, but these overall portfolio TRC and PAC ratios will not be a basis for rejection of the ABALs.
- TRC and PAC cost-effectiveness ratios shall also be calculated on only the resource acquisition portion of the portfolio and must exceed 1.0 on a forecast basis.

As noted previously, and discussed subsequently below, PG&E fails to meet certain savings goals in its PY2022-2023 ABAL.

Savings Goals and Total System Benefit

In D. 21-05-031 the CPUC adopted the Total System Benefit (TSB) metric, which is an expression, in dollar terms, of the lifecycle energy, capacity, and GHG benefits of an energy efficiency measure on an annual basis. In doing so, the CPUC noted widespread agreement among parties to the energy efficiency proceeding that:

> "the current focus on first-year energy savings only, in the form of kWh, kW, and therm savings, does not capture all of the policy goals and benefits of energy efficiency…The value of energy efficiency varies significantly based on the hour, season, GHG benefits, climate zone, and lifecycle savings of each measure…Of particular concern is that the current first-year savings goals do not adequately encourage longer-duration energy savings. This potentially creates a policy misalignment that encourages optimization of portfolios to meet or exceed forecasted net annual first-year energy savings, regardless of potential longer-term benefits to the system."[7]

While energy savings potential and goals will continue to be adopted on a biennial basis by CPUC for purposes of the demand forecast and Codes and Standards programs, beginning in 2024 the IOUs' respective resource acquisition programs will be required to meet their respective TSB goals, as opposed to specific energy savings metrics.[8]

In its PY2022-2023 ABAL, PG&E highlights "the approximately 50 percent increase in incentive program GWh goals for 2022 and 2023 approved in D.21-09-037, relative to the goals for those program years approved in D.19-08-034."[9] Additionally, in comments to D. 21-09-037 (Decision Adopting Energy Efficiency Goals for 2022-2032), PG&E raised concerns regarding the assumptions related achieving a significantly high amount of energy savings from fuel substitution measures and impacts on electric system reliability. Lastly, in the dicta of D. 21-09-037, the CPUC highlighted PG&E's concerns, and noted "that not achieving the full amount of fuel substitution savings estimated by the study should not negatively affect and may in fact mitigate reliability

[7] See D. 21-05-031, p. 8, at: https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M385/K864/385864616.PDF.
[8] TSB forecasts (for PY2022-23) and goals (for PY2024 and beyond) were recently adopted by CPUC in D. 21-09-037, at https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M411/K177/411177185.PDF . Energy savings goals remain in place for IOU Codes and Standards programs.
[9] See *PG&E's 2022-2023 Energy Efficiency Biennial Budget Advice Letter in Compliance with Decisions 15-10-028, 18-05-041, and 21-05-031,* pg. 8

concerns, given the lower increase in electric supply needs that would occur (relative to achieving the full amount of fuel substitution savings)."[10]

PG&E Goals and TSB Forecast

In its budget advice letter, PG&E provides energy savings forecasts (relative to CPUC-adopted energy savings goals) and TSB forecasts for PY2022 and PY2023. Although PG&E's resource acquisition segment forecast is cost-effective, it does not meet specific resource acquisition program savings goals for kWh (PY2022 and PY2023) and kW (2023). However, its portfolio TSB forecasts easily surpass the TSB forecasts in the Potential and Goals Study adopted by the CPUC in D. 21-09-037.[11] Specifically, PG&E forecasts:

- TSB of $339.7 million for PY2022, compared to a TSB forecast of $241 million in the Potential and Goals Study; and,
- TSB of $370.7 million for PY2023, compared to a TSB forecast of $267 million in the Potential and Goals Study.[12]

Cost effectiveness

Although PG&E's PY2022-2023 ABAL misses certain energy savings goals, its resource acquisition segment is cost-effective in both years, with a TRC (excluding Codes and Standards) of 1.28 and 1.37 for 2022 and 2023, respectively. (We note, too, that although it is not a requirement, PG&E's total portfolio is cost-effective in 2022 and 2023, with a TRC (excluding Codes and Standards) of 1.07 and 1.18, respectively.

Budget

The CPUC requires PG&E's PY2022-2023 budgets to be under the budget cap authorized in D. 18-05-041. As filed, PG&E's PY2022-2023 budgets, although higher than prior program year budgets due to increased Statewide program activity, are under the D. 18-05-041 cap for each program year. PG&E also remains below the overall cap for the 10-year budget period authorized in D. 18-05-041. We find this budget forecast to be reasonable and in "good faith" in that it falls under both the annual and cumulative caps set by the CPUC. We also agree with PG&E that these budgets reflect the delicate balance PG&E must manage between maximizing portfolio performance to achieve all realistically achievable, cost-effective potential savings…while maintaining resource acquisition (RA) segment cost-effectiveness and staying within budget.[13]

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[10] See D. 21-09-037, p. 26, at https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M411/K177/411177185.PDF

[11] See Section J-3 for PY2022-23 IOU TSB values in the Potential and Goals Study at https://pda.energydataweb.com/api/view/2531/2021%20PG%20Study%20DRAFT%20Report%202021_Final.pdf. PG&E TSB forecasts for PY2022-23 are found in its PY2022-2023 budget advice letter.

[12] PG&E TSB forecasts for PY2022 and PY2023 cited here are from supplemental advice letter 4521-G-A/6385-E-A. PG&E's initial advice letter 4521-G/6385-E included slightly higher TSB forecasts for PY2022 and PY2023. TSB forecasts by PG&E and in the Potential and Goals study are for the portfolio excluding Codes and Standards.

[13] See *PG&E's 2022-2023 Energy Efficiency Biennial Budget Advice Letter in Compliance with Decisions 15-10-028, 18-05-041, and 21-05-031,* pg. 8.

Conclusion

Consequently, although PG&E does not meet a traditional PY2022 resource acquisition energy savings goal, it does meet CPUC cost-effectiveness and budget requirements for the PY2022-2023 ABAL. Additionally, we agree with Cal Advocates that PG&E's "good faith"[14] forecast, coupled with the CPUC transition to the TSB metric, leaves it poised to achieve CPUC goals in the longer-term, as evidenced by its TSB forecasts for PY2022.

We therefore approve PG&E Advice Letter #4521-G/6385-E and 4521-G-A/6385-E-A, effective January 1, 2022.

If you have any questions, please contact Peter Franzese (peter.franzese@cpuc.ca.gov) and Sasha Merigan (alexander.merigan@cpuc.ca.gov).

Sincerely,

Simon Baker
Interim Deputy Executive Director for Energy & Climate Policy, CPUC /
Interim Director, Energy Division

[14] See *The Public Advocates Office's Protest of Energy Efficiency Biennial Budget Advice Letters for Program Years 2022 and 2023* (Filed November 8, 2021), p. 3.

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January 7, 2022

Advice 4521-G-A/6385-E-A
(Pacific Gas and Electric Company U 39 M)

Public Utilities Commission of the State of California

Subject: **Supplemental: PG&E's 2022-2023 Energy Efficiency Biennial Budget Advice Letter in Compliance with Decisions 15-10-028, 18-05-041, and 21-05-031**

Pacific Gas and Electric Company (PG&E) hereby submits this supplemental filing to update its 2022-2023 Energy Efficiency Biennial Budget Advice Letter. The updates to this Advice Letter include a change in the 2023 Resource Acquisition segment Total Resource Cost (TRC) value due to a change in the California Energy Data and Reporting System (CEDARS), and corrections for several typographical errors that PG&E identified in its original submission. In response to questions from the California Public Utilities Commission staff, this supplement includes clarifying language related to PG&E portfolio administrator costs and to the Codes and Standards Program scope and savings goals. This supplemental advice letter replaces original advice letter 4521-G/6385-E in its entirety.

I. Purpose

Pacific Gas and Electric Company (PG&E) submits its 2022-2023 energy efficiency (EE) portfolio budget (2022-23 EE Budget) by Tier 2 advice letter in compliance with the *Decision Re Energy Efficiency Goals for 2016 and Beyond and Energy Efficiency Rolling Portfolio Mechanics,* the "Rolling Portfolio Decision" (Decision (D.) 15-10-028),[1] the *Decision Addressing Energy Efficiency Business Plans* (D.18-05-041),[2] the *Assessment of Energy Efficiency Potential and Goals Modification of Portfolio approval and Oversight Process (*D.21-05-031),[3] and guidance from the California Public Utilities Commission (CPUC or Commission) Energy Division (ED) staff (Staff).

PG&E requests that the Commission approve its 2022-2023 Biennial Budget Advice Letter (BBAL) spending budgets of $247,653,027 and $274,643,728, for 2022 and 2023

[1] D.15-10-028, Ordering Paragraph (OP) 4.
[2] D.18-05-041, OP 41-47.
[3] D.21-05-031

respectively, and cost recovery budgets of $332,479,218 and $391,821,907, respectively, effective January 1, 2022.[4] PG&E additionally requests that the Commission approve the forecasted 2022 82%/18% electric/gas split and 2023 80%/20% electric/gas split for cost recovery allocations, effective January 1, 2022.

II. Background

A. Regulatory Requirements

The budget advice letter requirement was first adopted in D.15-10-028 with the requirement that each EE program administrator (PA) submit an advice letter with a budget for the next calendar year's EE portfolio by the first business day of September each year.[5] D.18-05-041 subsequently adopted the budgets set forth in the Business Plans for 2018-2025, which serve to "[set] budget expectations to be more fully developed in annual budget filings."[6] As part of the new portfolio filing process established in D. 21-05-031, the Commission ordered all EE PAs to file a Tier 2 advice letter no later than September 1, 2021, covering both program years 2022 and 2023.[7] The BBAL due date was updated to be November 1, 2021, in D. 21-09-037[8], and extended to November 8, 2021, in response to a joint IOU request for extension[9] to enable the joint IOUs to conduct the standard process of collaborating with Commission staff for quality control checks on the fixes to the California Energy Data and Reporting System (CEDARS).

B. Filing Requirements

D.15-10-028 requires each program administrator's (PA) advice letter to contain:

- A portfolio cost-effectiveness statement; and
- Application summary tables with forecast budgets and savings by sector and program/intervention.[10]

D.18-05-041 requires that the investor-owned utilities' (IOUs) annual budget advice letters (ABALs) include the following:

- Forecasted energy savings goals that must meet or exceed Commission-established savings goals for each IOU; and

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[4] Section III.J. of this advice letter provides more detail on PG&E's cost recovery request.
[5] D.15-10-028, OP 4.
[6] D.15-10-028, p.43.
7 D. 21-05-031, OP 13.
[8] D. 21.09-037, p. 21.
[9] Request of Investor-Owned Utilities for Extension of Time to Comply with Decision 21-09-037, Ordering Paragraph 3 (2022-2023 Energy Efficiency Budget Advice Letters); Granted 10/29/2021 by CPUC Executive Director Peterson.
[10] Ibid, p. 59.

- A forecasted budget that must not exceed the PA's annual budget in the approved Business Plans, or (if applicable) the revised annual budget in this Budget Advice Letter.[11]

D.21-05-031 made changes to the advice letter requirements and set the review criteria for the 2022-23 BBAL as follows:[12]

- Forecasted energy savings for 2022 and 2023 shall meet the annual energy savings goals adopted for those program years.
- Budget requests must stay under the cap authorized in D. 18-05-041 for the current business plan period.

The Total System Benefit (TSB) metric of the portfolio shall be included but will not be considered a basis for the rejection of the ABALs.

- Cost-effectiveness ratios, for both the Total Resource Cost (TRC) and Portfolio Administrator Cost (PAC), shall be included for the entire portfolio, but these overall portfolio TRC and PAC ratios will not be a basis for rejection of the ABALs.
- TRC and PAC cost-effectiveness ratios shall also be calculated on only the resource acquisition portion of the portfolio and must exceed 1.0 on a forecast basis.
- The cost-effectiveness requirements of D.18-05-041 for ABALs are otherwise removed and no longer in effect.
- The budget of programs classified as market support or equity programs shall not exceed 30 percent of the overall budget.
- Reasonableness of the program segmentation itself will not be a criterion for rejection of the ABAL.
- EM&V budgets should still be set at 4% of the overall portfolio budget.

C. Contents of this Filing

PG&E's advice letter is organized as follows:

- A. Budget, Goals, and Cost-Effectiveness
- B. California Energy Data and Reporting System (CEDARS) Discrepancy
- C. Forecast Approach
- D. Portfolio Administrator Costs
- E. Segmentation
- F. Summer Reliability
- G. Fuel Substitution
- H. 2022 and 2023 Program Closures, Changes, and Launches
- I. Evaluation Measurement & Verification (EM&V)

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[11] D.18-05-041, p. 133.
[12] D. 21-05-031, pp.52-53.

- J. Unspent Funds
- K. Schools Stimulus Program Funding
- L. Cost Recovery: Schools Stimulus Program and EE Portfolio Administrators
- M. Integrated Demand Side Management (IDSM) Budget
- N. Metrics

In addition to the information above, PG&E's 2022-2023 BBAL includes the following attachments:

- Attachment A – Appendices[13]
- Attachment B – Supplemental Budget Tables
- Attachment C – California Energy Data and Reporting System (CEDARS) Filing Confirmation

III. Discussion

A. Budget, Goals, and Cost-Effectiveness

PG&E proposes a 2022 EE portfolio budget of $247,653,028 and a 2023 EE portfolio budget of $274,643,728, inclusive of PG&E and CPUC EM&V. These budgets are below the cap authorized in D. 18-05-041 for the current business plan period. The increase in budget from 2022-2023 is primarily driven by increased activity and budgets for Statewide programs.

Tables 1a and 1b provide an overview of PG&E's 2022-2023 forecasted portfolio budget, savings, and cost-effectiveness, excluding market effects. These tables demonstrate PG&E's compliance with all of the budget advice letter requirements ordered in D.21-05-31[14].

[13] Appendix tables include, but are not limited to, the Statewide Program Budgets table and the Caps and Targets table. The format of these tables reflects input and agreement by EE PAs and CPUC Staff. To facilitate review, PG&E will provide CPUC Staff a version of these tables that includes active formulas.

[14] D. 21-05-031, pp. 52-53.

Table 1a: PG&E 2022 Forecast Budget and Savings Summary: [Amended]

Sector	Program Year (PY) 2022 Budget	FORECAST ENERGY SAVINGS (Net)		
		PA forecast kWh	PA forecast kW	PA forecast therms
Residential	$48,705,198	222,067,807	45,505	7,297,100
Commercial	$53,846,200	54,927,666	9,280	2,521,925
Industrial	$39,384,322	68,148,287	4,834	7,918,382
Agricultural	$14,282,120	22,662,909	2,666	135,042
Emerging Tech	$11,194,608	-	-	-
Public	$17,258,083	19,049,547	2,685	358,739
WE&T	$9,729,949	-	-	-
Finance	$4,421,610	48,519,205	6,941	276,378
OBF Loan Pool	$14,000,000	-	-	-
PA Subtotal (does not include ESA budget and savings)	**$212,822,091**	**435,375,422**	**71,911**	**18,507,567**
CPUC Savings Goal (w/o C&S)		553,000,000	75,000	13,000,000
Forecast savings as % of CPUC Savings Goal (w/o C&S)		78.7%	95.9%	142.4%
Codes and Standards (w/ interactive effects)	$24,924,815	1,202,765,304	212,173	19,198,912
CPUC Savings Goal (w/ C&S)		1,532,000,000	253,000	34,000,000
Forecast savings as % of CPUC Savings Goal (w/ C&S)		106.9%	112.3%	110.9%
Total EM&V	$9,906,121			
PA EM&V	$2,999,183			
ED EM&V	$6,906,938			
Portfolio Forecasted Total System Benefit (TSB)	$339,758,463			
Portfolio Forecasted Total Resource Cost -TRC (w/o C&S and w/ EM&V)	1.07			
Portfolio Forecasted Portfolio Administrator Cost (PAC)	1.72			
Portfolio Forecasted Ratepayer Impact Measure (RIM)	0.73			
Resource Acquisition Segment Forecasted TRC	1.28			
PA Spending Budget Request	$247,653,027			
(LESS) PA Pre-2020 Uncommitted and Unspent Carryover Balance	$33,937,234			
CEC AB 841 Program Funding				
Applicable percentage (70% and 60%) of difference between funding limitation and 2020 budget	$80,908,048			
PA 2020 and Beyond Uncommitted and Unspent Carryover Balance	$0			
CEC AB 841 Total Program Funding	$80,908,048			
PA Revenue Requirement Request (Cost Recovery)	$294,623,842			
% of Equity and Market Support Program Budgets to PA Spending Budget Request (not to Exceed 30%)	18%			
PA Authorized Budget Cap (D.18-05-041)	$354,970,997			

Table 1b: PG&E 2023 Forecast Budget and Savings Summary: [Amended]

Sector	Program Year (PY) 2023 Budget	FORECAST ENERGY SAVINGS (Net)		
		PA forecast kWh	PA forecast kW	PA forecast therms
Residential	$54,309,449	245,687,410.21	48,749.99	8,431,319.21
Commercial	$64,245,934	62,066,717.36	11,375.19	3,206,226.88
Industrial	$33,442,797	60,134,967.63	5,445.03	5,456,182.71
Agricultural	$21,956,306	33,668,314.86	3,817.80	234,306.59
Emerging Tech	$11,352,603	-	-	-
Public	$22,046,170	24,159,902.52	5,011.03	847,044.43
WE&T	$9,857,042	-	-	-
Finance	$4,654,846	38,064,192.68	6,470.91	123,316.16
OBF Loan Pool	$17,000,000	-	-	-
PA Subtotal (does not include ESA budget and savings)	**$238,865,147**	**463,781,505**	**80,870**	**18,298,396**
CPUC Savings Goal (w/o C&S)		597,000,000	81,000	14,000,000
Forecast savings as % of CPUC Savings Goal (w/o C&S)		77.7%	99.8%	130.7%
Codes and Standards (w/ interactive effects)	$24,792,832	1,268,882,418	248,459	22,446,478
CPUC Savings Goal (w/ C&S)		1,607,000,000	285,000	37,000,000
Forecast savings as % of CPUC Savings Goal (w/ C&S)		107.8%	115.6%	110.1%
Total EM&V	$10,985,749			
PA EM&V	$3,021,081			
ED EM&V	$7,964,668			
Portfolio Forecasted Total System Benefit (TSB)	$370,704,694			
Portfolio Forecasted Total Resource Cost -TRC (w/o C&S and w/ EM&V)	1.18			
Portfolio Forecasted Portfolio Administrator Cost (PAC)	1.69			
Portfolio Forecasted Ratepayer Impact Measure (RIM)	0.74			
Resource Acquisition Segment Forecasted TRC	1.36			
PA Spending Budget Request	$274,643,728			
(LESS) PA Pre-2020 Uncommitted and Unspent Carryover Balance	$0			
CEC AB 841 Program Funding				
Applicable percentage (70% and 60%) of difference between funding limitation and 2020 budget	$69,349,755			
PA 2020 and Beyond Uncommitted and Unspent Carryover Balance	$0			
CEC AB 841 Total Program Funding	$69,349,755			
PA Revenue Requirement Request (Cost Recovery)	$343,993,483			
% of Equity and Market Support Program Budgets to PA Spending Budget Request (not to Exceed 30%)	20%			
PA Authorized Budget Cap (D.18-05-041)	$354,508,439			

Goals

PG&E forecasts achieving the total[15] GWh, MW, and Therm savings goals adopted in D. 21-09-037 for 2022 and 2023.

Table 2 presents PG&E's forecasted percent of savings goals for 2022 and 2023. Pursuant to D.21-05-31, PG&E is forecasting to achieve all total savings goals in 2022 and 2023. Because stakeholders have displayed particular interest in goals specific to incentive programs in the past, PG&E discusses that forecast in greater depth below. PG&E cannot reasonably forecast[16] achieving 100% of the 2022 and 2023 savings goals for incentive programs.

Table 2: PG&E 2022 and 2023 Total Portfolio Forecasted Percent of Savings Goal

	2022			2023		
	GWh	MW	Therm	GWh	MW	Therm
Total Goal	**106.9%**	**112.3%**	**110.9%**	**107.8%**	**115.6%**	**110.1%**
Incentive Programs Only	78.7%	95.9%	142.4%	77.7%	99.8%	130.7%
Codes and Standards Only[17]	120%	112%	102%	124%	118%	107%

[15] Total GWh, MW, and Therm goals for incentive programs and codes and standards, combined. D.16-08-019, Conclusions of Law 14, clarifies that "utilities should continue to be assigned and receive credit towards energy efficiency savings goals for codes and standards advocacy." Discussion in Section 3.4 of the decision clarifies that part of the reason to continue goal-setting and goal-crediting for codes and standards advocacy is to further "important synergies between codes and standards development and programmatic strategies" (D.16-08-019 at 29).

[16] PG&E commented extensively on its concerns that the 2021 Potential and Goals study produced inflated estimates of EE potential and resulted in unrealistic goals. See Pacific Gas and Electric Company's (U 39 M) Opening Comments to The Administrative Law Judge's Ruling Inviting Comments On Draft Potential And Goals Study (May 21, 2021); Pacific Gas and Electric Company's (U 39 M) Comments To The Administrative Law Judge's Email Ruling Providing Notice And Opportunity Re: Additional Results Of Draft Potential And Goals Study (July 30, 2021).

[17] These figures reflect PG&E's forecasted percentage of the codes and standards goal, exclusive of interactive effects, because the 2021 Potential and Goals study estimated codes and standards goals exclusive of interactive effects. The codes and standards forecasted savings elsewhere in this advice letter, and in CEDARS, are inclusive of interactive effects. PG&E achieves all codes and standards goals in 2022 and 2023 when interactive effects are accounted for consistently in goals and forecasts, i.e. when interactive effects are excluded from both or included in both.

As shown in Table 2:

- PG&E forecasts meeting all total savings goals in 2022 and 2023.
- PG&E forecasts achieving 78.7% of the incentive program GWh goal in 2022 and 77.7% in 2023.
- PG&E forecasts achieving 95.9% of the incentive program MW goal in 2022 and 99.8% in 2023. However, while REN and CCA demand reduction accomplishments are not included in the forecasted savings in this BBAL, PG&E predicts that, collectively with its REN and CCA partners, it will achieve the incentive program MW goal in 2023. Depending on the design of REN and CCA portfolios, it may also be possible to achieve the incentive program MW goal in 2022, as well.
- PG&E forecasts meeting the incentive program Therm goals for both 2022 and 2023.
- PG&E forecasts meeting all codes and standards goals for both 2022 and 2023 when interactive effects are treated consistently in goals and forecasts.

In D. 21-09-037, the Commission adopted the EE goals for 2022 and 2023. The goals were based on estimates of EE potential that used a 0.85 measure-level TRC threshold and did not fully calibrate fuel substitution potential to account for barriers to market adoption of those measures. In adopting these goals, the Commission stated its "intent for the program administrators to aggressively pursue all potentially achievable cost-effective energy savings opportunities, particularly from fuel substitution measures that have thus far gone untapped."[18]

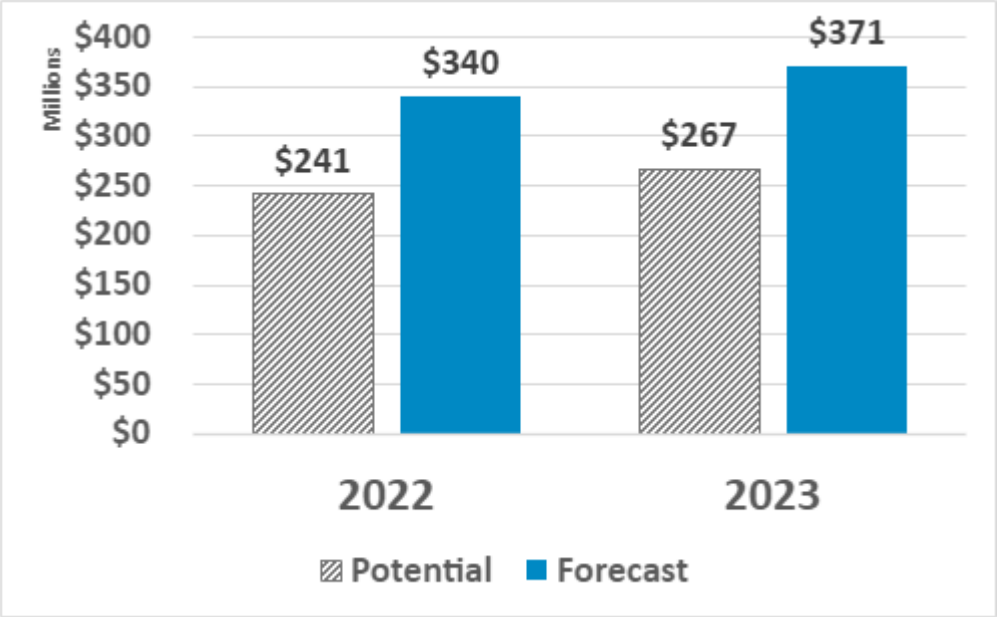
In developing this forecast, PG&E sought to balance the need to aggressively pursue the Commission's ambitious goals with the realities of market constraints and the objective shared across many customer programs of maintaining affordability for ratepayers.

PG&E remains committed to maximizing the performance of its programs to pursue all realistically achievable, cost-effective potential savings during these years—and to doing so while maintaining resource acquisition (RA) segment cost-effectiveness and staying within budget. These BBAL forecasts of total portfolio accomplishments and incentive program-specific accomplishments are PG&E's current assessment of what it can credibly achieve in the next two years. Regarding accomplishments of PG&E's incentive programs, the following contextual factors are important to consider: (1) the approximately 50% increase in incentive program GWh goals for 2022 and 2023 approved in D.21-09-037, relative to the goals for those program years approved in D.19-08-034, and (2) the fact that many of PG&E's highest-saving programs are already slated to operate at full capacity in 2022-23. Soliciting and ramping up additional programs could take approximately two years, so adding significant savings capacity through new programs would neither be feasible within the given time frame, nor would it be appropriate given that PG&E is focused on the transition to TSB as the EE goals metric starting in 2024.

[18] D. 21-09-037, p. 16.

As shown in Figure 1, if EE goals were already set in TSB for 2022 and 2023, PG&E's forecast would demonstrate achievement of those goals in 2022 and 2023[19].

Figure 1: 2022 and 2023 Total System Benefit Achievable Potential and PG&E Forecast



[19] 2021 PG Study Measure Results Database_7-9-21.xlsx, found here Total System Benefits tab, Scenario 2. PG&E's TSB Potential for 2022 = $241,356,512 and for 2023 = $267,427,576.

Cost Effectiveness

Tables 3a and 3b provide for 2022 and 2023, respectively, the TRC, PAC and RIM test forecasts for the EE RA segment of PG&E's portfolio, as well as for the overall EE portfolio, both without and with the C&S program benefits and costs. PG&E is forecasting a cost-effective portfolio, with and without codes and standards (C&S), for both years. While total portfolio cost-effectiveness is not a requirement for approval of this BBAL, PG&E highlights this for transparency regarding ratepayer funds.

Table 3a: PG&E 2022 Cost-Effectiveness Statement

Cost-Effectiveness Scenario	2022 TRC Forecast	2022 PAC Forecast	2022 RIM Forecast
Resource Acquisition Segment	1.28	2.15	N/A
Portfolio without C&S	1.07	1.72	0.73
Portfolio with C&S	2.82	9.45	0.76

Table 3b: PG&E 2023 Cost-Effectiveness Statement [Amended]

Cost-Effectiveness Scenario	2023 TRC Forecast	2023 PAC Forecast	2023 RIM Forecast
Resource Acquisition Segment	1.36	2.09	N/A
Portfolio without C&S	1.18	1.69	0.74
Portfolio with C&S	2.74	9.74	0.81

The cost-effectiveness calculations for the RA segment in 2022 and 2023 include only those programs that PG&E has assigned to this segment, as defined in D. 21-05-031.

Portfolio-level TRC, PAC, and RIM calculations in Tables 3a-b include costs for:

- EM&V;[20]
- Statewide (SW) Marketing, Education and Outreach (ME&O);[21] and
- All EE programs except those noted immediately below.

[20] EM&V costs total 4% of PG&E's EE portfolio budget. See Section III.I. for more details on EM&V.

[21] Per Ordering Paragraphs (OP) 2 and 3 of D. 21-03-056, a Flex Alert Subaccount is established within the Statewide Marketing, Education, and Outreach (SWME&O) Balancing Account - Electric. This one-way subaccount tracks authorized spending against the $12M annual budget that is funded by PG&E, Southern California Edison Company (SCE), and San Diego Gas & Electric Company (SDG&E). SCE is the holder of the two-year contract and will invoice PG&E's share of 45% per page 2 of Rulemaking 20-11-003 Attachment 1. After the Flex Alert program has been completed, the remaining funds will be returned to customers through the Annual Electric True-UP (AET) advice letter filing. The amounts will be recovered through the existing SWME&O mechanisms of Distribution Revenue Adjustment Mechanism (DRAM), PEERAM, and PPPRAM. D.21-03-066 funds Flex Alerts for 2021 and 2022, so a $0 budget is assumed for 2023.

Portfolio-level TRC, PAC, and RIM calculations in Tables 3a-b exclude costs for:

- Emerging Technologies (ET) programs;
- BayREN, 3C-REN, RCEA, MCE, and SJCE benefits and costs;[22]
- Financing costs including credit enhancements approved for the Statewide Financing Pilots in D.13-09-044;[23]
- Administrative costs associated with PG&E's performance of the fiscal agent role for BayREN and 3C-REN;[24]
- Energy Savings Assistance (ESA) benefits and costs; and
- Market effects.

These calculations exclude any consideration of a shareholder incentive, per the moratorium on the Energy Savings Performance Incentive (ESPI) established in D. 20-11-013.[25]

B. CEDARS Discrepancy

The total PG&E portfolio budget, TRC, and PAC values presented in this advice letter contain a discrepancy with the values shown in the CEDARS dashboard for this 2022-2023 filing.[26] This discrepancy results from the fact that PG&E's OBF loan pool contribution budget of $14M for 2022 and $17M for 2023 is included in PG&E's advice letter total portfolio budget but excluded from the total portfolio budgets shown in the CEDARS dashboard for the 2022 filing. This is because the OBF loan pool Program ID is flagged in CEDARS for exclusion from the portfolio budget as these funds are not forecasted expenditures. Rather, these funds contribute to PG&E's revolving loan pool that is not captured in portfolio budget through CEDARS expenditures reporting.

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[22] D.12-11-015.

[23] These costs include funding authorized by the Commission for CAETFA's CHEEF programs in D.21-08-006; see PG&E Advice Letters 4459-G/6341-E and 4506-G/6355-E.

[24] D.19-12-021, OP 5.

[25] D. 20-11-013, OP1.

[26] Previous PG&E Annual Budget Advice Letters identified several other sources of discrepancy with CEDARS which PG&E has been able to resolve for this budget filing.

Table 4a: Summary of 2022-23 Advice Letter and CEDARS Discrepancy Sources

Discrepancy	Source	OBF Loan Pool Contribution Budget 2022: $14,000,000 2023: $17,000,000
PG&E Total Portfolio Budget	CEDARS Dashboard	Excluded
	Advice Letter	Included
PG&E Portfolio TRC and PAC, with and without C&S	CEDARS Dashboard	n/a
	Advice Letter	n/a

Table 4b: Summary of 2022 Advice Letter and CEDARS Value Discrepancies[(a)]

Program ID	Total PG&E EE Portfolio Budget	TRC without C&S	PAC without C&S	TRC with C&S	PAC with C&S
CEDARS Dashboard	$233,653,028	1.07	1.72	2.82	9.45
Advice Letter	$247,653,028	1.07	1.72	2.82	9.45

Table 4c: Summary of 2023 Advice Letter and CEDARS Value Discrepancies [(a)]

Program ID	Total PG&E EE Portfolio Budget	TRC without C&S	PAC without C&S	TRC with C&S	PAC with C&S
CEDARS Dashboard	$257,643,728	1.18	1.69	2.74	9.74
Advice Letter	$274,643,728	1.18	1.69	2.74	9.74

As of the date of this submission, no discrepancies in TRC and PAC values are apparent between the CEDARS dashboard and this 2022-2023 budget advice letter. This is because the source of TRC and PAC calculation discrepancies involve relatively small forecasted cost amounts that do not materially impact the TRC and PAC values when rounded to the nearest hundredth.

C. Forecast Approach

PG&E's 2022 and 2023 forecasts reflect its continued focus on transitioning to a predominantly third-party outsourced portfolio. The forecasts assume PG&E will achieve the 60% outsourcing target by December 31, 2022.[27] As the transition continues, PG&E's forecasted portfolio consists of (1) an evolving mix of continuing local and statewide programs, newly contracted local and statewide programs that PG&E expects will ramp up in early 2022 and into 2023, and (2) future programs that have not yet been solicited or contracted but that are projected to become active at some point in 2022 or 2023.

[27] D.18-01-004, OP 1.

As shown in Table 5, PG&E adopted various forecast approaches, as appropriate, for these different types of programs.

Table 5: Forecast Approach by Program Type

Forecast Approach	Program Types
Implementer-Generated Forecast, subject to PG&E QC	Existing/Continuing Local Programs
	Existing/Continuing SW Programs – PG&E Lead
	New SW Programs – PG&E Lead
Forecast supplied to PG&E by Lead IOU	Existing/Continuing SW Programs – other IOU Lead
	New SW Programs – other IOU Lead
	Future SW Programs – other IOU Lead
Placeholder Forecast developed by PG&E Staff	Future Local Programs
	Future SW Programs – PG&E Lead

Where PG&E's BBAL forecast relies on an implementer-generated program forecast, PG&E reviewed that forecast for reasonableness and for adherence with CPUC requirements before including it in the portfolio forecast. In cases where a Statewide program forecast was provided to PG&E by the Lead IOU, PG&E relied on the expertise of that Lead IOU in preparing the forecast for that program. To forecast for future local or PG&E-led Statewide programs, PG&E generated a placeholder forecast informed by market knowledge, historic performance of program interventions in that market or with relevant measure(s) and subject-matter expertise of PG&E's Program Management and Portfolio Strategy staff.

D. Portfolio Administrator Costs

PG&E continues to focus on managing its portfolio administrator (PA costs) costs and expects a 13% reduction for the 2022 and 2023 program years as compared to 2020. As PG&E's portfolio continues to transition to a predominantly outsourced portfolio, as portfolio administrator, PG&E expects to provide portfolio and program oversight, and assist third-party providers with other support services to improve program offerings, avoid administrative redundancies, and ensure regulatory compliance. To accomplish this, PG&E expects retaining portfolio-related costs associated with program/portfolio administration responsibilities that align with PG&E's regulatory and fiduciary responsibilities as stewards of ratepayer funds, as well as those portfolio administration responsibilities critical to the achievement of portfolio goals. These costs typically do not vary greatly based on the number or scale of programs in the portfolio. Examples of portfolio-related costs include oversight roles such as regulatory compliance; savings and financial reporting; portfolio optimization; EM&V support; and IT investments.

PG&E's PA costs can be divided into program support and portfolio support:

- **Program Support** includes PA costs for all activities that directly support individual programs and can be booked directly to a specific program or follows a program-performance-based allocation (e.g., energy savings). This portion of PG&E's PA costs is what PG&E interprets as "Program Implementation Costs" in the California Energy Efficiency Coordinating Committee (CAEECC) categorization.[28]
- **Portfolio Support** includes PA costs for all activities that support the entire EE portfolio and use a "rule of thumb" allocation since the work cannot be booked directly to a specific program. This portion of PG&E's PA costs is what PG&E interprets as "Portfolio Administration" in the CAEECC categorization.[29]

Even though portfolio support PA costs are – by definition – costs that cannot be directly associated with individual programs, current CEDARS reporting standards do not allow portfolio support PA costs to be reported separately from programs (with the exception of EM&V costs). Therefore, portfolio support PA costs must be assigned to individual programs for CEDARS reporting. For all programs other than statewide programs which PG&E is not the lead PA (i.e., where PG&E is the funding PA), PG&E used a program budget-based allocation to assign portfolio support PA costs. For statewide programs led by another IOU, PG&E assigned portfolio support PA costs to programs using an equal distribution based on the number of programs in PG&E's portfolio. [30]

While detailed information on PG&E's PA costs are available in Table 4 in Attachment A, for this 2022-2023 budget advice letter, PG&E separated program support and portfolio support PA costs by program cost CET input field. Table 5b below has the mapping for CET input field with program support and portfolio support, by cost category.[31]

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[28]Proposal for Improvements to the EE Portfolio and Budget Approval and Implementation Process; Developed by the CAEECC Hosted Energy Efficiency Filing Processes Working Group. April 24, 2020. p.8.

[29] Ibid, p.8.

[30] Other IOUs may have a different process for allocating PA costs to statewide programs so comparison across the IOUs of PA costs for statewide programs may not be appropriate. PG&E anticipates discussing allocation processes in future Reporting PCG meetings in pursuit of IOU alignment.

[31] Energy Efficiency Policy Manual, version 6, Appendix C: Cost Categories and Related Cap and Targets April 2020, available at: https://www.cpuc.ca.gov/-/media/cpuc-website/files/legacyfiles/e/6442465683-eepolicymanualrevised-march-20-2020-b.pdf. (as of December 22, 2021).

Table 5b: PA Cost Mapping to CET Inputs

CET Program Cost Input Field Name	PA Cost Type	Cost Category
AdminCostsOther	Portfolio PA Cost	Administrative
DIInstallation	Portfolio PA Cost	Direct Implementation Non-Incentive (DINI)
DIRebateAndInspection	Program PA Cost	Administrative
UserInputIncentive	Program PA Cost	Marketing
DIHardwareAndMaterials	Program PA Cost	DINI

E. Segmentation

D. 21-05-031 requires all PAs to submit BBALs that assign each EE program ID to one of three segments—RA, market support (MS), or equity—based on the program's primary purpose.[32] While only informational (i.e., BBAL approval will not constitute approval of portfolio segmentation proposals), this provides PAs the opportunity to articulate segmentation strategies ahead of the 2024-2027 EE Portfolio Applications. PG&E recognizes the importance of the new EE paradigm created by portfolio segmentation and embraces the opportunity to align EE program objectives with policy objectives. Portfolio segments can help PG&E go beyond short-term delivery of cost-effective energy savings and better support PG&E's focus on the people we serve, the planet we inhabit, and California's prosperity.

D. 21-05-031 confirmed that codes and standards remains separate from the rest of the EE programs in terms of segmentation. PG&E recognizes the importance of codes and standards in the pursuit of multiple energy efficiency and decarbonization policy objectives. While the core aim of the codes and standards program is to strengthen or develop regulations to promote and support energy efficiency, the program continues to also support regulations that promote a number of other important state policy objectives (e.g. water efficiency, electrification, greenhouse gas reduction, alternative fuel vehicles, grid flexibility and sustainability, indoor air quality, and equity considerations) as they relate to EE. PG&E's annual codes and standards spend over the last eight years has facilitated PG&E actively participating in state, federal, and regional codes and standards efforts through the three statewide Advocacy subprograms, and the local subprograms which include Compliance Improvement, Code Readiness, Reach Codes & Planning & Coordination. PG&E intends to manage the codes and standards program and its budget allocations to continue these efforts and to enable the program to cost effectively address current, evolving, and future needs for codes and standards in California.

[32] D. 21-05-031, OP 2. The Decision also confirmed (p.16) that Codes and Standards is separate: "C&S programs will remain separate as well, as previously defined in D.12-05-015." EM&V funds are assigned to an EM&V segment for reporting purposes in CEDARS.

Portfolio Segmentation Strategy

PG&E's default position is that a program is in the RA segment. PG&E assigns a program to the market support or equity segment only if its primary purpose aligns with market support[33] or equity[34] objectives rather than with resource acquisition objectives[35]. As recognized in D.21-05-031[36], while an individual program may only be assigned to one segment at any point in time, it is often the case that programs have multiple objectives. PG&E has several programs that, while segmented based on their primary purpose, have objectives that align with other segments. For example, the local WE&T Integrated Energy Education & Training (IEET) Program, (PGE21071) has a primary purpose of supporting the long-term success of the EE market through education and training, and thus is assigned to the market support segment, but also has equity objectives and provides classes that serve HTR and DAC populations. Given this, PGE21071 is assigned to the market support segment. These types of programs demonstrate PG&E's continuing goal to serve multiple objectives through its EE portfolio.

The majority of PG&E's recently solicited third-party local and statewide programs are assigned to the RA segment. PG&E's solicitations for these programs operated under the former pre-portfolio segmentation paradigm in which programs could only be designated as resource or non-resource, therefore any programs that were solicited as resource programs have designs that seek to deliver cost-effective resource savings. However, this does not mean that all "resource" programs awarded under this pre-portfolio segmentation paradigm should be assigned to the RA segment.

The forecasted cost-effectiveness of a program was not a determinant in the segment assignments, however D.21-05-031 acknowledges "the conflict between cost-effectiveness and other equally or more important policy objectives such as equity and support for the energy efficiency market".[37] Portfolio segmentation enables PG&E and other IOUs to still support equity and market support activities valued by the Commission and include programs that may have otherwise been retired from the portfolio or not

[33] D. 21-05-031, p. 14: "Programs with a primary objective of supporting the long-term success of the energy efficiency market by educating customers, training contractors, building partnerships, or moving beneficial technologies towards greater cost-effectiveness."

[34] D. 21-05-031, p. 14: "Programs with a primary purpose of providing energy efficiency to hard-to-reach or underserved customers and disadvantaged communities in advancement of the Commission's Environmental and Social Justice (ESJ) Action Plan;3 Improving access to energy efficiency for ESJ communities, as defined in the ESJ Action Plan, may provide corollary benefits such as increased comfort and safety, improved indoor air quality and more affordable utility bills."

[35] D. 21-05-031, p. 14: "Programs with a primary purpose of, and a short-term ability to, deliver cost-effective avoided cost benefits to the electricity and natural gas systems. Short-term is defined as during the approved budget period for the portfolio, which will be discussed further later in this decision."

[36] D.21-05-031, pp.15-16.

[37] D.21-05-031, pp. 13-14.

considered in a solicitation. The sections below will highlight the programs PG&E assigns to the market support and equity segments in this BBAL, and the rationale for those assignments.

Market Support Segment

PG&E's market support segment includes programs in which the primary objectives are to contribute to the long-term success of the broader energy efficiency market, including education and training, building partnerships, moving beneficial technologies towards greater cost-effectiveness, and accelerating adoption of emerging technologies into codes & standards. PG&E considers these programs' broader impact on the market, rather than just at the sites of intervention, as a critical aspect of their assignment to the market support segment.

As outlined in the final report[38] from the CAEECC Market Support Metrics Working Group (MSMWG), the sub-objectives of the market support segment provide an opportunity to build, enable, and maintain demand, supply, partnerships, innovation and accessibility, and access to capital. These recommended sub-objectives further reaffirm PG&E's program assignments for the market support segment, as detailed below.

New Construction Programs

The four new PG&E-led Statewide Residential and Non-Residential New Construction programs[39] and PG&E's three existing local new construction programs[40] are assigned to the market support segment. New construction programs have historically supported the broader energy efficient new construction market and the new statewide programs continue to do so, but now with enhanced efforts to support building decarbonization and electrification.

As designed, the new construction programs in PG&E's portfolio have primary objectives that align with the CPUC's market support definition[41]. While they all achieve resource savings – and this BBAL forecast includes first-year net energy savings attributable to these programs – delivery of those short-term cost-effective savings are not their primary objectives. Rather, their primary objectives include: providing energy efficient design assistance to promote the early adoption of reach codes and future code elements to make long-term changes to standard practices in the new construction market; educating builders, developers, and architecture and engineering (A&E) firms; accelerating adoption

[38] CAEECC Equity Metrics Working Group Report

[39] See Table 6 for a complete list of residential and non-residential electric and mixed fuel Program IDs

[40] Savings by Design (PGE211025), Residential New Construction (PGE21005), and California New Homes Multifamily (PGE21007).

[41] D. 21-05-031, p. 14: "Programs with a primary objective of supporting the long-term success of the energy efficiency market by educating customers, training contractors, building partnerships, or moving beneficial technologies towards greater cost-effectiveness."

of advanced EE technologies; and driving decarbonization and the adoption of all-electric new construction. Reviews of the four statewide new construction programs' logic models[42] show that the primary objectives for these programs strongly align with each component of the market support definition.

Assigning the new construction programs to the market support segment supports California's major policy priorities on climate change, particularly economy-wide carbon neutrality by 2045[43] and reducing greenhouse gas (GHG) emissions to 80% of 1990 levels by 2050 because it allows for these new construction programs to prioritize activities that benefit these long-term goals over the pursuit of short-term cost-effective first-year net energy savings. For the state to achieve these ambitious goals, it must decarbonize its buildings[44]. The decarbonization of California's buildings requires extensive levels of coordination both within EE and beyond. In D.18-05-041, the CPUC designated PG&E as the lead for both the Statewide New Construction programs and the Statewide Codes & Standards Advocacy[45] programs due to the related nature of these activities and expertise required.[46] This structure provided the opportunity for PG&E to set the direction for these programs to work in concert together with complementary activities, and at the scale and level of investment to pursue the state's climate change goals.

Other IOU-led Statewide Program

SDG&E is the assigned lead PA for the Statewide Residential QI/QM program (PGE_SW_HVAC_QIQM) and has designated this program as market support. Please refer to SDG&E's BBAL for further information regarding this designation.

Residential Sector Market Support

The Comfortable Home Rebates (PGE_Res_001a) program's primary objective is to support the long-term success of the residential single-family home retrofit market. This program works with individual homeowners to educate them on the "whole house" approach and educates the broader residential trade professional community in applied building science and quality installation of whole-house measures, as well as sales and marketing, to improve installation services that are provided. The program promotes contractor awareness and education regarding quality installation practices, HVAC permitting, Title-24 documentation, and helps contractors improve their sales processes by highlighting the benefits of energy efficient equipment and educating customers on the use of their new products. This program has helped single-family homeowners achieve

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[42] CEDAM Implementation Plan, p.14, found here. CEDAE Implementation Plan, p.14 found here. CESHP All-Electric Implementation Plan, p.16 found here. CESHP Mixed-Fuel Implementation Plan (Draft version on CAEECC website as of 10/23/2021): here .

[43] SB100 and Executive Order B-55-18.

[44] 2019 California Energy Efficiency Action Plan, p. 6.

[45] State Appliance Standards Advocacy (PGE_SW_CSA_Appl), State Building Codes Advocacy (PGE_SW_CSA_Bldg), and National Codes & Standards Advocacy (PGE_SW_CSA_Natl)

[46] D.18-05-041, p.90.

long-term energy savings through deep retrofits, but has been challenging to deliver cost-effectively given the high measure costs and limited above-code savings. The portfolio segmentation paradigm adopted in D.21-05-031 has enabled PG&E to retain this program in its portfolio so that it can continue to provide direct support to the residential trade professional community.

Maintaining programs such as Comfortable Home Rebates (CHR) can enable PG&E to sustain partnerships with the residential trade professional community to ensure they are ready to train in performing single-family home retrofits that are all-electric-ready. While the statewide residential new construction programs also address alterations through their measure-by-measure approach with incentives for electrifying appliances & systems, CHR is a complementary approach to build, enable, and maintain the relationship with those residential trade professionals who could be installing those measures.

Market Support Program Solicitation

This BBAL forecast includes one placeholder program ID (PGE_Res_002e) in the market support segment for a new online marketplace expected to launch in 2022. This is currently an active solicitation requesting a program focus on continuing to raise customer awareness of, and engagement with, energy management products and expand to energy management programs and services.

Local Government Partnership (LGP) Programs

The eight LGP programs[47] that were awarded in 2020 via PG&E's Third-Party Solicitations are assigned to the market support segment. As noted above, one of the primary sub-objective recommendations from the CAEECC MSMWG was to build, enable, and maintain partnerships[48]. PG&E's LGP programs were selected based on their ability to enable and identify EE opportunities within the communities of the local public agencies that they serve. These new LGP programs are not specifically designed to directly deliver short-term cost-effective energy savings. They are designed to enable opportunities for local public agency customers to save energy in their buildings, to increase the opportunities to save energy for hard-to-reach (HTR) customers or those in disadvantaged communities (DAC) through working with local governments, or improve local government staff capacity to conduct activities that will lead to EE for the local government and/or its communities. While the LGP programs have equity components in their program design, their support extends beyond those communities included in the equity definition and they are therefore better aligned with the market support segment.

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[47] PGE_Pub_001 through PGE_Pub_008.

[48] CAEECC-Hosted Market Support Metrics Working Group Report and Recommendations to the California Public Utilities Commission and the Energy Efficiency Program Administrators, October 6, 2021, p. 14, Sub-objective #3: "Build, enable, and maintain partnerships with consumers, governments, advocates, contractors, suppliers, manufacturers, community-based organizations and/or other entities to obtain delivery and/or funding efficiencies for energy efficiency products, and/or services and added value for partners".

Workforce Education & Training (WE&T)

The PG&E-led Statewide WE&T Career Connections Program (PGE_SW_WET_CC) is assigned to the market support segment due to its primary objective to develop the next generation of energy workers by:

- raising awareness and exposure to "high-value" energy career pathways for K-12 disadvantaged students;
- preparing students with knowledge, skills, and abilities related to IDSM;
- and providing professional development training to "boost educator experience and confidence" in energy and STEM topics.[49]

This aligns with a key component of the market support definition to support the long-term success of the EE market through education. This non-resource program is assigned to market support rather than equity because the population served is not limited to those within the equity definition. While this program does have an equity component through raising awareness for K-12 disadvantaged students, the overall program has a broader scope and therefore is better aligned with the market support segment.

PG&E's local WE&T program Integrated Energy Education and Training (IEET) is assigned to the market support segment for similar reasons as the SW Career Connections Program. IEET focuses on collaborating with other training organizations that are training future members of the energy workforce to introduce and/or expand EE content into their programs. IEET also helps to educate current members of the energy workforce on ways to save energy and decarbonize buildings through changes to workplace practices, equipment operations, equipment selection, and facility operations.[50]

Emerging Technologies Programs

PG&E has two local Emerging Technologies subprograms remaining in its portfolio in 2022 that are assigned to the market support segment – the Technology Assessments (PGE21062) and Technology Introduction Support (PGE21063) subprograms. SCE and SoCalGas are the Lead IOUs for the Statewide Emerging Technologies Electric and Gas Programs, respectively. Those statewide programs are expected to launch in late 2021 (gas) and 2022 (electric), therefore, PG&E's local programs' forecasted budgets are intended to bridge the gap until those statewide programs come fully online and to complete existing projects. The Emerging Technologies Program (ETP) primary objective is to accelerate the adoption of emerging technologies, which aligns well with the core component in the market support definition to "mov[e] beneficial technologies towards greater cost-effectiveness".[51]

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[49] The Energy Coalition's Energy is Everything Implementation Plan, p.6, available at https://cedars.sound-data.com/documents/download/2021/main/

[50] Integrated Energy Education & Training subprogram Implementation Plan, found here.

[51] D.21-05-031, p.14.

Table 6 shows the programs that PG&E has assigned to the market support segment for 2022-2023.

Table 6: Market Support Segment Programs

Program ID	Program Name
PGE_Res_001a	Comfortable Home Rebates
PGE_Res_002b	Residential Energy Advisor – Marketplace
PGE_Res_002e	New Marketplace Placeholder
PGE_SW_ETP_Elec	Emerging Technologies Program, Electric
PGE_SW_ETP_Gas	Emerging Technologies Program, Gas
PGE_SW_HVAC_QIQM	SW Residential QI/QM
PGE_SW_NC_NonRes_Ag_electric, PGE_SW_NC_NonRes_Com_electric, PGE_SW_NC_NonRes_Ind_electric, PGE_SW_NC_NonRes_Pub_electric, PGE_SW_NC_NonRes_Res_electric	New Construction Non-Residential – All Electric
PGE_SW_NC_NonRes_Ag_mixed, PGE_SW_NC_NonRes_Com_mixed, PGE_SW_NC_NonRes_Ind_mixed, PGE_SW_NC_NonRes_Pub_mixed, PGE_SW_NC_NonRes_Res_electric	New Construction Non-Residential – Mixed Fuel
PGE_SW_NC_Res_electric	New Construction Residential, Electric
PGE_SW_NC_Res_mixed	New Construction Residential, Mixed Fuel
PGE_SW_WET_CC	SW Workforce Education & Training Career Connections
PGE21005	Residential New Construction
PGE21007	California New Homes Multifamily
PGE21062	Technology Assessments
PGE21063	Technology Introduction Support
PGE21071	Integrated Energy Education and Training
PGE211025	Savings by Design (SBD)
PGE_Pub_001	Central Coast Leaders in Energy Action Program
PGE_Pub_002	Marin Energy Watch Partnership
PGE_Pub_003	Redwood Coast Energy Watch
PGE_Pub_004	Central California Energy Watch
PGE_Pub_005	San Mateo County Energy Watch Program
PGE_Pub_006	Energy Access SF
PGE_Pub_007	Sierra Nevada Energy Watch
PGE_Pub_008	Sonoma Public Energy
PGE_SWME&O	SW ME&O

Equity Segment

For 2022 and 2023, PG&E provides forecasts for four programs in its equity segment—two are currently active, one is in solicitation, and one is a placeholder for potential future solicitation. The programs assigned to the equity segment align with the definition in D. 21-05-031: they primarily serve, or intend to serve, hard-to-reach or underserved customers and/or DACs in the advancement of the Commission's Environmental and Social Justice (ESJ) Action Plan. While programs in other segments in PG&E's portfolio also support equity objectives and/or serve equity populations, the programs designated as part of the equity segment in this BBAL are limited only to those whose primary objective aligns with the D. 21-05-031 definition.

Active programs

The Statewide WE&T Career and Workforce Readiness (CWR) program (PGE_SW_WET_Work) is focused specifically on "generating a diversity of pathways for disadvantaged workers into energy careers,"[52] and thus better aligns with the equity segment. The CWR program provides technical upskill training and job placement to disadvantaged workers. This subprogram launched in 2021 and is forecasted to be active throughout 2022 and 2023.

PG&E is assigning its existing Local Government Energy Action Resources (LGEAR, PGE2110051) Program to the equity segment because of the program's focus on delivering energy efficiency to traditionally underserved communities such as small business customers. In 2021, PG&E maintained LGEAR to support the EE needs of small business customers who were significantly impacted by the pandemic but also unserved by the newly solicited local third-party programs. PG&E recognized this gap in coverage and proceeded with a targeted solicitation for a new small/microbusiness equity program (see below for more detail). PG&E plans to maintain the LGEAR program until that new program is launched to ensure the needs of these underserved customers are addressed in its EE portfolio.

Current and future equity program solicitation

PG&E is running an active solicitation for a targeted small/microbusiness equity program (placeholder PrgID PGE_Com_SmallBiz) that provides programs and services that enable awareness, access, and participation in EE to customers whose engagement and participation in EE has historically been disproportionately low. While the selected program may deliver claimable savings, that was not the primary objective indicated in

[52] The SEI Energize Careers Implementation Plan, https://cedars.sound-data.com/documents/download/2020/main/ .

the solicitation[53]. While details of the program depends on the outcome of the solicitation, PG&E envisions that this program will target underserved small/micro business customers using smart technologies and leveraging existing community-based partners and resources. PG&E forecasts this program to launch in 2022.

PG&E includes a placeholder program ID (PGE_Res_Equity) for a to-be-determined solicitation for a new equity program(s). PG&E has not defined the scope of the program(s) but has identified market needs for building decarbonization support for low-middle income residential customers (who are not ESA-eligible) and for customers who reside in manufactured/ mobile homes (MMH). While PG&E offered a MMH program in the past, that program was retired due to low cost-effectiveness[54]. The equity segment established in D. 21-05-031[55] provides an opportunity to explore a future program to address the unique needs of this market which has historically been difficult to serve cost-effectively.

PG&E will continue to engage with the market to identify other opportunities to offer equity-oriented programs.

Table 7: Equity Segment Program(s)

Program ID	Program Name
PGE_Com_SmallBiz	Small/Microbusiness Placeholder
PGE2110051	Local Government Energy Action Resources (LGEAR)
PGE_SW_WET_Work	WE&T Career and Workforce Readiness
PGE_Res_Equity	Residential Equity Placeholder

F. Summer Reliability

PG&E looks forward to working with the Commission and stakeholders to mitigate the risk of capacity shortages, through the pursuit of both peak and net peak demand reduction and permanent load reduction. In its Phase 2 Opening Testimony in Rulemaking 20-11-003 ("Emergency Reliability OIR"),[56] PG&E discussed a range of program options and policy matters to address grid reliability needs in summer 2022, 2023 and potentially beyond—including demand- and supply-side interventions. As a companion to those ideas, in its comments on the *Administrative Law Judge's Email Ruling Requesting*

[53] "As an equity program, the primary objective is to achieve increased participation and provide targeted services to customers and regions which don't historically receive it." RFA General Instructions, p. 10, Section 2.1.

[54] PGE21009, Direct Install for Manufactured and Mobile Homes Program closed December 2020, per PG&E's 2021 supplemental ABAL.

[55] D.21-05-031, OP 2.

[56] Pacific Gas and Electric Company, Emergency Reliability Order Instituting Rulemaking Errata Testimony, Application 20-11-003, September 2, 2021.

Comments/Proposals to Address Governor's Proclamation of July 30, 2021,[57] PG&E recommended targeted energy efficiency policy changes that could positively impact grid reliability, particularly during the summers of 2022 and 2023. These recommendations include:

- Updating IDSM rules to further implementation of comprehensive programs
- Expanding eligibility and expedited approval of custom and site-level NMEC projects capable of providing peak demand reduction prior to the summers needed
- Increasing procurement flexibility to enable faster response to emerging marker or grid needs
- Enabling full valuation of reliability benefits

PG&E awaits future Commission guidance on actions program administrators should take to support summer reliability, within and beyond the realm of energy efficiency. PG&E is also exploring ways to address the need for peak and net peak demand reduction within the existing rule set for energy efficiency programs.

Potential Nonresidential Strategies

A straightforward strategy through which nonresidential programs can support summer reliability is to prioritize "reliability-focused" projects—those that can credibly deliver meaningful peak or net peak demand reduction during summer 2022 or 2023, and install prior to the beginning of the appropriate summer season.[58] PG&E plans to prioritize these projects, and develop guidance for implementers and trade professionals on how to properly document peak and net peak demand reduction. In addition, PG&E may also work with its third-party implementers to offer enhanced incentives[59] or performance payments through existing contracts for reliability-focused projects or measures.

Potential Residential Strategies

PG&E proposed programs aimed at reducing residential peak and net peak demand in the Emergency Reliability OIR, including a residential Emergency Load Reduction Program and Power Saver Rewards Pilot.[60] Within its energy efficiency portfolio, PG&E plans to undertake strategies to help residential customers reduce peak and net peak electric demand that complement programs and actions approved in the Emergency

[57] Pacific Gas & Electric Company's (U 39 M) Comments to the Administrative Law Judge's Email Ruling Requesting Comments/Proposals to Address Governor's Proclamation of July 30, 2021, filed August 31, 2021.

[58] These types of projects are also discussed in PG&E's *Comments on the ALJ's Email Ruling* on p. 5. "If the Commission does not establish criteria for "meaningful" electric demand reduction, PG&E will identify a threshold internally."

[59] It is a part of the program design of PG&E third-party implementers to determine appropriate incentive levels for their projects.

[60] PG&E's Emergency Reliability OIR Errata Testimony, Chapters 2-3.

Reliability OIR or otherwise ordered by the Commission. These could include approaches such as:

- Using energy efficiency communication channels to message customers with specific requests to reduce load. For example, this could include adding tips on reducing peak demand to customer communications, for example, through the Home Energy Reports and Home Energy Checkup programs.
- Targeting customers with higher summer peak kW demand with interventions aimed at reducing their peak and net peak load. Interventions could include installation of smart thermostats or HVAC, ductwork, and attic insulation measures, if needed.

These interventions are not included in PG&E's 2022-23 EE forecast because PG&E intends to develop them to complement activities authorized in the Emergency Reliability OIR and/or funded by the Electric Reliability Memorandum Account that PG&E proposed in its opening testimony in the Emergency Reliability OIR.[61]

G. Fuel Substitution

PG&E understands the critical role fuel substitution measures and programs play in reducing GHG emissions and the urgency with which the Commission has encouraged PAs to pursue fuel substitution opportunities. Heat pump technology is advancing and slowly gaining traction in the market as distributors, contractors, and customers are learning about the latest developments. However, numerous significant barriers persist that prevent rapid growth in the heat pump water heater and heat pump HVAC equipment markets – highlighting the importance of market calibration when estimating the savings potential of these technologies. The following are some of the barriers that the heat pump technology needs to overcome to become a well-accepted technology by all the different parties involved:

- Lack of familiarity or experience with heat pump technology among distributors[62], contractors[63], local governments[64] and customers[65] ;
- Cost of 2 to 3 times the cost of typical equipment;

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[61] PG&E Emergency Reliability Order Instituting Rulemaking Errata Testimony, Application 20-11-003, September 2, 2021. Last accessed October 24, 2021 at: https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/energy-division/documents/summer-2021-reliability/opening-testimony/pdfa_emergencyreliabilityoir_test_pge_20210902.pdf .

[62] CEE. 2016. *Overview of HPWH Programs in the US and Canada*. Consortium for Energy Efficiency.

[63] EEE. 2019. "Residential Building Electrification in California." RHA. 2020. *WatterSaver Beta Test Final Report.* Richard Heath & Associates.

[64] NBI. 2020. *California Retrofit-Ready HPWH Program Elements Framework*. National Building Institute.

[65] CEE 2016. Overview of HPWH Programs in the US and Canada. Consortium for Energy Efficiency.

- Customers often replace equipment on burnout, leaving no time to explore different replacement options;
- Contractors generally prefer installing “like for like”;
- Cost of panel upgrade typically necessary for a heat pump water heater[66]; and
- Customer preference to not be an alpha/beta user[67].

PG&E is currently committing resources across its EE portfolio to address a number of these barriers. These efforts include, but are not limited to:

- Rebates and incentives for heat pump equipment within the following programs: Comfortable Home Rebates (PGE_RES_001A); Multifamily Energy Savings Program (PGE_RES_003); Local Plug Load and Appliance (PGE_21002); CA Energy-Smart Homes Program (SW_NC_Res_electric, SW_NC_Res_mixed); Comfortably CA (SW_HVAC_Up) and Statewide Midstream Water Heating Program (SW_MCWH);
- Education and training on heat pump water heater equipment and benefits through the CA Energy-Smart Homes Program; Codes and Standards Program; WE&T classes on electrification and heat pump appliances;
- Pilot studies and equipment testing: the Midstream Heat Pump Water Heater Study/Pilot (funded through PG&E’s Codes & Standards and Demand Response Emerging Technologies Program; 120V Heat Pump Water Heater Study (implemented by New Buildings Institute and co-funded partially by PG&E’s Codes & Standards, SCE, and SMUD); EM&V-funded Furnace Replacement Study; C&S testing and data collection; and
- Leveraging BUILD and TECH, and relationships with builders, developers, trade allies, and community-based organizations (CBOs).

PG&E understands that there are statewide programs that will influence next steps in the heat pump space. When details of the TECH initiative, BUILD initiative, Statewide Plug Load Appliance, and SGIP are further formalized, PG&E will be able to determine the most appropriate pathways to take to fill in the market gaps while achieving claimable savings and reducing GHG emissions.

H. 2022 and 2023 Program Closures, Changes, and Launches

This section identifies changes to PG&E’s proposed programmatic activity in compliance with D.15-10-028 and D.18-05-041. PG&E met its second program outsourcing requirement of 40% by December 31, 2020. PG&E is forecast to continue to exceed 40% in 2022 and forecast to meet the 60% outsourcing requirement by December 31, 2022. New third-party programs will be launching in 2022 and 2023 and will maintain some programs to aide in that transition. Specifically, the portfolio adjustments include the ramp

[66] CPUC. 2021. *SGIP HPWH Staff Proposal.* CPUC Energy Division Staff.
[67] NEEA. 2020. *Electric HPWH Logic Model*. Northwest Energy Efficiency Alliance.

down and closure of several existing programs[68] either immediately or upon completion of project commitments, as well as contract extensions for some existing programs to maintain delivery of programs and services until new replacement programs are fully active.

The program budget changes described in this section reflect budgets that changed by 40% or more relative to program budgets approved in PG&E's 2021 ABAL, in accordance with D.18-05-041 OP 41 and section 7.2. Program changes, including closures and launches, are detailed in the following sections and summarized in Attachment A, Table 4.1, to this advice letter.

Programs to be closed at contract term end date

PG&E intends to close six existing programs at the end of 2021 pursuant to its contract term end date. These programs, shown in Table 8 below, are closing because of low performance or because they would overlap with the new local third-party and/or statewide programs that are expected to be active in 2022. These programs are not included in PG&E's 2022 CEDARS budget filing. All these programs have a contract term end date of December 31, 2021, thus their closure does not require a public webinar, per D. 21-05-031.[69]

Table 8: Programs to be Closed at contract term end date

Program ID	Program Name	Contract Term End Date
PGE210210	Industrial Recommissioning Program	12/31/2021
PGE21027	Heavy Industry Energy Efficiency Program	12/31/2021
PGE210143	Hospitality Program	12/31/2021
PGE_Res_002c	Residential Energy Advisor - Home Energy Reports	12/31/2021
PGE_Res_001d	Pay for Performance - Home Energy Optimization	12/31/2021
PGE21072	Connections	12/31/2021

Programs to be Closed in 2022 or 2023

PG&E includes in its 2022-2023 BBAL forecasts, budgets for 13 programs that it plans to close either upon completion of current program commitments or when a new third-party program launches to serve the needs that the current program is meeting. Several

[68] For the purposes of this 2022-2023 ABAL, a "closed" program is no longer accepting new applications. Unless otherwise noted, a closed program may still have program spend and savings claims into 2022 and beyond, in order to meet outstanding program commitments and complete project pipelines in place prior to closure.

[69] D. 12-05-031, OP12 "A webinar or workshop shall not be required in the narrow circumstance where a third-party program is ending according to its original contract term length."

programs that will close upon completion of their current commitments are not open to new project applications and are finishing out their existing pipeline of projects in anticipation of a new local or statewide third-party program ramping up in 2022 to meet those customer or market needs.

Table 9: Programs to be Closed Upon Completion of Commitments

Program ID	Program Name	% Budget Change from 2021	Reason for Closure	Contract Extension Date	Explanation
PGE21005	Residential New Construction	-64.34%	New local third-party and/or statewide program overlap	n/a	Finishing existing pipeline and ramping down in anticipation of new program overlap
PGE21007	California New Homes Multifamily	-29.96%	New local third-party and/or statewide program overlap	n/a	Finishing existing pipeline and ramping down in anticipation of new program overlap
PGE21062	Technology Assessments	24.40%	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap	06/30/2022	Extended into 2022 to gap-fill for incoming third-party programs
PGE21063	Technology Introduction Support	-68.29%	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap	06/30/2022	Extended into 2022 to gap-fill for incoming third-party programs
PGE2110051	Local Government Energy Action Resources (LGEAR)	-40.38%	New local third-party and/or statewide program overlap	2022 (Month TBD)	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap
PGE2110011	California Community Colleges	-70.44%	New local third-party and/or statewide program overlap	2022 (Month TBD)	Extended into 2022 to gap-fill for incoming third-party programs
PGE2110012	University of California/California State University	-50.57%	New local third-party and/or statewide program overlap	2022 (Month TBD)	Extended into 2022 to gap-fill for incoming third-party programs
PGE_Res_001a	Pay for Performance - Comfortable	7.22%	New local third-party and/or statewide program overlap	2022 (Month TBD)	Extended into 2022 to gap-fill for incoming third-party programs

	Home Rebates				
PGE211025	Savings By Design (SBD)	-63.38%	New local third-party and/or statewide program overlap	n/a	Finishing existing project pipeline in anticipation of SW replacement program. Program not accepting new applications
PGE2110013	State of California	-78.92%	New local third-party and/or statewide program overlap	n/a	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap
PGE2110014	Department of Corrections and Rehabilitation	-53.76%	New local third-party and/or statewide program overlap	n/a	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap
PGE_Res_002b	Residential Energy Advisor - Marketplace	-73.93%	New local third-party and/or statewide program overlap	2022 (Month TBD)	Program being extended into 2022 to ensure continuity in offerings until new third-party program ramps up
PGE21002	Residential Energy Efficiency	-14.49%	New local third party and/or statewide program overlap	2022 (Month TBD)	Program being extended into 2022 to ensure continuity in offerings until Statewide Plug Load and Appliance Program ramps up

Programs with Budget Changes of 40% or More Relative to the 2021 ABAL

Several programs have 2022 budgets that have either decreased or increased by 40% or more relative to PG&E's 2021 ABAL, shown in Tables 10 and 11 below.

Table 10: Programs with 2022 Budgets Decreased by 40% or More relative to PG&E's 2021 ABAL

Program ID	Program Name	% Budget Change from 2021	Explanation
PGE_Res_002b	Residential Energy Advisor - Marketplace	-73.93%	Program is expected to operate into approximately mid-2022 and plans to ramp down in coordination with New Marketplace Placeholder ramp up

PGE21005	Residential New Construction	-64.34%	Ramping down due to overlap with new SW programs PGE_SW_NC_Res_electric and PGE_SW_NC_Res_mixed
PGE211025	Savings by Design (SBD)	-63.38%	Finishing existing project pipeline in anticipation of SW replacement program. Program not accepting new applications
PGE21031	Agricultural Calculated Incentives	-75.99%	Ramping down to allow for third party program ramp up
PGE21032	Agricultural Deemed Incentives	-73.58%	Ramping down to allow for third party program ramp up
PGE2110011	California Community Colleges	-70.44%	Ramping down due to overlap with new SW program PGE_SW_IP_Colleges
PGE2110012	University of California/California State University	-50.57%	Ramping down due to overlap with new SW programs PGE_SW_IP_Colleges
PGE2110051	Local Government Energy Action Resources (LGEAR)	-40.38%	Ramping down to allow for new local third-party program ramp up
PGE2110013	State of California	-78.92%	Ramping down due to overlap with new SW program PGE_SW_IP_Gov
PGE2110014	Department of Corrections and Rehabilitation	-53.76%	Ramping down due to overlap with new SW program PGE_SW_IP_Gov
PGE_SW_CSA_Appl	State Appliance Standards Advocacy	-50.80%	Budget reduction due to reduced CEC activity on Title 20 in 2022
PGE21063	Technology Introduction Support	-68.29%	Ramping down to allow for new local third-party program ramp up

Table 11: Programs with 2022 Budgets Increased by 40% or More relative to PG&E's 2021 ABAL

Program ID	Program Name	% Budget Change from 2021	Explanation
PGE_Res_001b	Pay for Performance - Home Intel	179.08%	Program budget increase reflects extended enrollment period and resulting in additional customer enrollment
PGE_Res_001c	Pay for Performance -	118.63%	Program budget increase reflects extended enrollment period and resulting in additional customer enrollment

	Home Energy Rewards		
PGE_SW_PLA	Plug Load and Appliance	103.24%	Ramp up activities for statewide third-party program; budget set by lead PA
PGE_Com_001	Grocery Comprehensive Retrofit and Commissioning	156.28%	This is a new local third-party program ramping up
PGE_Com_002	Smart Labs	98.48%	This is a new local third-party program ramping up
PGE_SW_UL	Lighting (Upstream)	83.46%	Ramp up activities for new SW third-party program; budget set by lead PA
PGE_Ag_001	Agriculture Energy Savings Action Plan	108.07%	This is a new local third-party program ramping up
PGE_Ind_001b	Industrial SEM - Manufacturing	65.18%	Program budget increase reflects increased customer enrollment
PGE_Ind_002	Business Energy Performance Program	52.02%	This is a new local third-party program ramping up
PGE_Ind_003	Industrial Systems Optimization Program	71.10%	This is a new local third-party program ramping up
PGE_Pub_010	RAPIDS Wastewater Treatment Optimization Program	191.33%	This is a new local third-party program ramping up
PGE_SW_IP_Gov	Institutional Partnerships: DGS and DoC	257.68%	Ramp up activities for new SW third-party program
PGE_SW_CSA_Natl	National Codes & Standards Advocacy	54.82%	Increased budget necessary to support increased DOE advocacy
PGE_SW_WET_CC	WET Career Connections	71.43%	This is a new third-party statewide program ramping up
PGE_SW_WET_Work	WET Career and Workforce Readiness	42.50%	This is a new third-party statewide program ramping up

New Programs Launching in 2022 and 2023

PG&E is introducing multiple new programs into its 2022 and 2023 portfolios because of its third-party local and statewide solicitations processes, and the statewide solicitations of other lead PAs, in cases where PG&E is not the lead PA:

- Three new local, third-party programs; and
- Four new statewide programs

These new programs are listed in Table 12 below. With the exception of SW HVAC QI/QM Program and the Residential Equity Placeholder, which are forecasted to launch in 2023, all are expected to be active in 2022. However, several are not expected to deliver savings until 2023. Attachment A, Table 6, of this advice letter contains further details on the SW program budgets by IOU for 2022 and 2023.

Table 12: New Third-Party Local and Statewide Programs for 2022 and 2023[70]

Program ID	Program Name	Program Type
PGE_Res_Equity	Residential Equity Placeholder	Local Third Party
PGE_Res_002e	New Marketplace Placeholder	Local Third Party
PBE_Com_SmallBiz	Small/Microbusiness Placeholder	Local Third Party
PGE_SW_ETP_Elec (a)	Emerging Technologies Program, Electric	Statewide
PGE_SW_IP_Colleges (a)	Institutional Partnerships: UC/CSU/CCC	Statewide
PGE_SW_WP (a)	Water/wastewater pumping	Statewide
PGE_SW_HVAC_QIQM (a)	Statewide Residential QI/QM	Statewide

(a) Statewide Program IDs in this table represent the portion of the statewide program that is implemented by a third-party implementer. Each of these statewide programs also has an accompanying Program ID for the Portfolio Administrator (PA) costs, represented by the same Program ID for the statewide program and appended by the characters "_PA". These PA Cost Program IDs are included in CEDARS. The PA Cost Program IDs were created to separately track PG&E's PA costs to support the associated statewide program.

[70] The programs in this table represent those that were not included in the IOUs' 2021 Annual Budget Advice Letters (ABALs) and are therefore considered "new" for 2022 and 2023. The Statewide Plug Load & Appliances program (PGE_SW_PLA) is expected to be newly active in 2022 but is not included in this table because it was previously approved in the 2021 ABALs.

Program ID Changes Resulting from Program ID Reorganization

PG&E is deactivating one of its Program IDs on CEDARS that was used in reporting the State Appliance Standards Advocacy Program, in PG&E's 2020 and 2021 ABAL as shown in Table 13 below. The program activities under the Program ID that is being deactivated will not be ceasing, therefore the program activities are not classified as "closed" at this point in time. Instead, these program activities will be continuing under a new program ID in 2022 and beyond to ensure alignment with reporting being done across all IOUs (see Table 13 below).

Table 13: 2021 Program IDs Deactivated as Program Activities Move to Alternative Existing Program ID

2020 and 2021 ABAL		2022 ABAL forward	
Program ID	**Program Name**	**Program ID Acquiring Program Activities**	**Program Name Acquiring Program Activities**
PGE_SW_CSA_App	State Appliance Standards Advocacy	PGE_SW_CSA_Appl	State Appliance Standards Advocacy
PGE_SW_CSA_App_PA	State Appliance Standards Advocacy PA Costs	PGE_SW_CSA_Appl_PA	State Appliance Standards Advocacy

PG&E is splitting up two of its 2021 existing Program IDs into multiple Program IDs as shown in table 14 below. The New Construction Non-Residential Program (historically PGE_SW_NC_NonRes) has been split into ten separate Program IDs for its 2022 and 2023 forecast. Eight of these Program IDs were created to accurately track the PA costs and benefits that should be attributed to each sector for both the electric and mixed fuel programs, given limitations of CEDARS and the true cross-cutting nature of the New Construction Non-Residential Program. Two additional Program IDs were created due to high-rise multifamily buildings (residential multifamily) being subject to non-residential building code[71] and therefore necessitating a separate residential Program ID for both the electric and mixed fuel programs under the statewide New Construction Non-Residential offering. Similarly, PG&E has split up its New Construction Residential Program (historically PGE SW_NC_Res) into two Program IDs to account for the distinct electric and mixed fuel offerings. Historic Program IDs for the New Construction Non-Residential and New Construction Residential programs will be deactivated.

[71] 2019 Title 24 Section 6, Nonresidential Compliance manual (Section 1.7.7).

Table 14: 2021 Program IDs Split into Multiple 2022 Program IDs

2021 ABAL		2022 ABAL	
Program ID	**Program Name**	**Program ID**	**Program Name**
PGE_SW_NC_NonRes	New Construction Non-Residential	**PGE_SW_NC_NonRes_Ag_electric**	New Construction Non-Residential Ag Electric
		PGE_SW_NC_NonRes_Ag_mixed	New Construction Non-Residential Ag Mixed Fuel
		PGE_SW_NC_NonRes_Com_electric	New Construction Non-Residential Com Electric
		PGE_SW_NC_NonRes_Com_mixed	New Construction Non-Residential Com Mixed Fuel
		PGE_SW_NC_NonRes_Ind_electric	New Construction Non-Residential Ind Electric
		PGE_SW_NC_NonRes_Ind_mixed	New Construction Non-Residential Ind Mixed Fuel
		PGE_SW_NC_NonRes_Pub_electric	New Construction Non-Residential Pub Electric
		PGE_SW_NC_NonRes_Pub_mixed	New Construction Non-Residential Pub Mixed Fuel
		PGE_SW_NC_NonRes_Res_electric	New Construction Non-Residential Res Electric
		PGE_SW_NC_NonRes_Res_mixed	New Construction Non-Residential Res Mixed Fuel
PGE SW_NC_Res	New Construction Residential	**PGE_SW_NC_Res_electric**	New Construction Residential, Electric
		PGE_SW_NC_Res_mixed	New Construction Residential, Mixed Fuel

I. EM&V

Tables 15a-b show the 2022 and 2023 EM&V budgets for PG&E, BayREN, MCE, and the portion of 3C-REN's that accounts for its shared territory with PG&E.

Table 15a: 2022 EM&V Budgets

PA	Total PA Budget without EM&V	EM&V Total (a)	EM&V CPUC Portion (b)	EM&V PA Portion	Total PA Budget with EM&V
PG&E (c)	$237,746,906	$9,906,121	$6,906,938	$2,999,183	$247,653,027
BayREN (d)	$25,118,073	$1,046,586	$758,775	$287,811	$26,164,659
MCE (e)	$14,115,967	$588,165	$363,126	$225,039	$14,704,132
3C-REN (f)	$4,235,043	$176,460	$127,934	$48,527	$4,411,503
Totals	**$281,215,989**	**$11,717,333**	**$8,156,773**		**$292,933,322**

Table 15b: 2023 EM&V Budgets

PA	Total PA Budget without EM&V	EM&V Total (a)	EM&V CPUC Portion (b)	EM&V PA Portion	Total PA Budget with EM&V
PG&E (c)	$263,657,979	$10,985,749	$7,964,668	$3,021,081	$274,643,728
BayREN (d)	$25,615,673	$1,067,320	$773,807	$293,513	$26,682,993
MCE (e)	$14,748,246	$614,510	$380,857	$233,653	$15,362,756
3C-REN (f)	$5,551,368	$231,307	$167,698	$63,609	$5,782,675
Totals	**$309,573,265**	**$12,898,886**	**$9,287,030**		**$322,472,152**

(a) The EM&V total amount (including CPUC and PA portions) is assumed to be 4% of the PA's total budget with EM&V.
(b) For BayREN, MCE, and 3C-REN, the EM&V CPUC portion was calculated by subtracting the PA's portion from the EM&V total.
(c) PG&E's EM&V split is 69.7% CPUC / 30.3% PA in 2022 and is 72.5% CPUC / 27.5% PA in 2023. For PY 2022, PG&E shifted $275,000 in EM&V budget from the CPUC share of the default 72.5% CPUC / 27.5% PG&E split of the total EM&V budget to the PG&E share to cover anticipated eTRM enhancement costs in 2022, in alignment with Draft 2022 DEER Resolution E-5082, p.10 and conversations with Energy Division Staff in Q2 2020.
(d) BayREN total budget without EM&V and EM&V PA portion taken from BayREN's draft 2022-2023 ABAL forecast emailed on 10/26/2021, 11/1/2021 and 11/4/2021.
(e) MCE total budget without EM&V and EM&V PA portion taken from MCE's draft 2022-2023 ABAL forecast emailed on 10/15/2021.
(f) 3C-REN total budget without EM&V and EM&V PA portion taken from 3C-REN's draft 2022-2023 ABAL forecast emailed on 10/28/2021 and 11/2/2021. PG&E's portion of 3C-REN's

budget is 45.6%. PG&E's share of 3C-REN program and EM&V budgets was coordinated with SCG in advance of the 2022-2023 BBAL filing date.

J. Unspent Funds

Table 16 presents unspent funds. It distinguishes between funds that are committed to be spent on a specific cost, and funds that are uncommitted and thus will either be paid to the CEC for the Schools Stimulus Program or will be applied to offset cost recovery in 2022. While typically all unspent and uncommitted funds serve to offset the cost recovery amount for the next year's budget, per D. 21-01-004, any PG&E 2020 and 2021 unspent and uncommitted funds are to be transferred to the CEC to fund the Schools Stimulus Program created in California Assembly Bill 841.

The pre-2020 unspent/uncommitted "PA Funds" amounts indicated in this table reflect funds collected in rates by PG&E and allocated for REN/CCA budget, but not paid to a REN/CCA. These funds are distinct from the BayREN-, MCE-, and 3C-REN-specific unspent/uncommitted amounts applied by that PA as an offset to it's 2022 cost recovery budget in Table 19b.

Table 16: Prior Years' Unspent Funds as of August 2021

	PY2013-2015	PY 2016	PY 2017	PY 2018	PY 2019	PY 2020	PY 2021 (estimated)	Totals
Unspent & Committed								
EM&V [(a)]	$0	$0	$14,479,143	$11,501,157	($1,636,128)	($5,021,136)	$13,463,019	$32,786,055
Financing Pilots [(b)]	($785,914)	$0	$500,000	$500,000	$500,000	$500,000	$2,500,000	$3,714,086
BayREN	$0	$0	$0	$0	$0	$846,034	$296,123	$1,142,157
MCE	$0	$0	$0	$0	$0	($306,838)	($277,735)	($584,573)
3C REN	$0	$0	$0	$0	$0	$1,373,208	$2,842,626	$4,215,834
Total	**($785,914)**	**$0**	**$14,979,143**	**$12,001,157**	**($1,136,128)**	**($2,608,732)**	**$18,824,033**	**$41,273,559**
Unspent & Uncommitted Pre-2020 EM&V and Ren/CCA funds for 2022 Rate Offset								
EM&V - PG&E Funds	$1,698,003	$3,949,526	$0	$0	$0	$0	$0	$5,647,529
EM&V - CPUC Funds	$4,246,520	$11,723,301	$0	$0	$0	$0	$0	$15,969,821
PA Funds[(c)]	$3,797,067	$104,615	$42,769	$5,442,402	$2,933,031	$0	$0	$12,319,884
Total	**$9,741,590**	**$15,777,442**	**$42,769**	**$5,442,402**	**$2,933,031**	**$0**	**$0**	**$33,937,234**
Estimated Unspent & Uncommitted 2020 and 2021 PG&E funds for 2022 Transfer to CEC								
PG&E Program Funds [(d)]	$0	$0	$0	$0	$0	$12,334,487	$0	$12,334,487
Total Unspent & Uncommitted Funds	**$9,741,590**	**$15,777,442**	**$42,769**	**$5,442,402**	**$2,933,031**	**$12,334,487**	**$0**	**$46,271,721**

(a) Includes unspent funds from the CPUC ($26.5 million) and PG&E ($6.3 million)

(b) Financing Pilot 2017, 2018, 2019, and 2020 committed funds were authorized in AL 3904-G/5175-E, approved effective December 3, 2017. The PY2021 commitment of $2.5m reflects PG&E administration costs related to the CHEEF program, per PG&E Advice 4495-G/6341-E.
(c) These amounts were collected by PG&E and considered committed for REN/CCA budget but not paid to a REN/CCA.
(d) PY2020 amount is an estimate of the unspent and uncommitted amount that is incremental to the $10,000,000 already estimated in PG&E's 2021 ABAL. Final PY2020 incremental unspent and uncommitted funds pending completion of the 2020 EE audit. PY2021 is an estimate and subject to change.

K. Schools Stimulus Program Funding

Pursuant to Public Utilities Code Section 1600, et seq., and D. 21-01-004, this Budget Advice Letter includes funding of the School Energy Efficiency Stimulus Program (Stimulus Program) administered by the CEC.

Table 17 presents the funding component amounts and totals for the 2021, 2022 and 2023 Stimulus Program. PG&E is already making quarterly payments[72] to the CEC for the 2021 Stimulus Program. Upon approval of this Budget Advice Letter, PG&E plans to adjust the next payment amount to achieve payment of PG&E's total $114,800,827 funding amount for the 2021 Stimulus Program. PG&E intends to make quarterly payments to the CEC in 2022 for a total funding amount of $80,908,048, and in 2023 for a total funding amount of $69,349,755.

Table 17: PG&E Funding of the 2021, 2022, and 2023 Schools Stimulus Program

Funding Component	2021 Stimulus Program	2022 Stimulus Program	2023 Stimulus Program
Relevant Percentage[(a)] of difference between funding limitation and 2020 budget	$92,466,340[(b)]	$80,908,048[(c)]	$69,349,755[(c)]
PG&E estimated 2020 Unspent and Uncommitted Funds	$10,000000 [(b)]	N/A	N/A
PG&E incremental actual 2020 Unspent and Uncommitted Funds[(d)]	$12,334,487	N/A	N/A
PG&E 2021 estimated Unspent and Uncommitted Funds	N/A	$0	N/A
PG&E 2022 estimated Unspent and Uncommitted Funds	N/A	N/A	$0
Total Funding	**$114,800,827**	**$80,908,048**	**$69,349,755**

(a) Per D. 21-01-004, the relevant percentage for 2021 funding is 80%, 2022 funding is 70%, and the relevant percentage for 2023 is 60%.

[72] Per Advice 4374-G/6070-E.

(b) These amounts were approved in AL 4374-G/6070-E and are the basis of the quarterly payments being made in 2021 to the CEC for funding the 2021 Stimulus Program.
(c) These amounts were ordered in D. 21-01-004.
(d) This amount is the difference between PG&E's 2020 estimated unspent and uncommitted amount included in PG&E's 2021 ABAL and PG&E's actual final 2020 unspent and uncommitted amount which is pending completion of the UAB audit. This amount is not included in the 2022 budget request or cost recovery request because it has already been collected and will be incorporated into PG&E's payments to the CEC for funding the 2021 Stimulus Program, per D. 21-01-004.

L. Cost Recovery: Schools Stimulus Program and EE Portfolio Administrators

In order to fund the 2022 and 2023 PG&E, BayREN, MCE and 3C-REN portfolio budgets, EM&V, and CEC Schools Stimulus Program budgets identified in this BBAL, PG&E proposes total cost recovery amounts of $**332,479,218** and $**391,821,907**, respectively. These cost recovery amounts reflect the total PA and CEC budget requests, offset in some cases by pre-2022 unspent and uncommitted funds already collected by the PAs.

Schools Stimulus Program Cost Recovery

Table 18a presents the total cost recovery request of $80,908,048 necessary for PG&E to fund the 2022 Stimulus Program. These costs will be recovered from ratepayers in 2022 and paid by PG&E to the CEC quarterly in 2022 per the agreed payment mechanism. This cost recovery request amount does not include the $12.3m in incremental unspent and uncommitted 2020 EE portfolio funds (as shown in Table 17) because collection of those funds was authorized by the Commission's approval of PG&E's 2020 Annual Budget Advice Letter, and PG&E's 2020 rates already collected those funds.

Table 18a: Cost Recovery Request for 2022 Stimulus Program Funding

Cost Recovery Component	Total 2022 Cost Recovery Amount	Applicable Electric/Gas Split [a]		Electric Portion for 2022 Cost Recovery	Gas Portion for 2022 Cost Recovery
		% Electric	% Gas		
Difference in funding limit and 2020 budget	$80,908,048	82%	18%	$66,344,599	$14,563,449
Total Cost Recovery:	**$80,908,048**			**$66,344,599**	**$14,563,449**

(a) The 2022 electric/gas split is forecasted to be 82%/18%.

Table 18b presents the total cost recovery request necessary for PG&E to fund the 2023 Stimulus Program. These costs will be recovered from ratepayers in 2023 and paid by PG&E to the CEC quarterly in 2023 per the agreed payment mechanism.

Table 18b: Cost Recovery Request for 2023 Stimulus Program Funding

Cost Recovery Component	Total 2023 Cost Recovery Amount	Applicable Electric/Gas Split (a)		Electric Portion for 2023 Cost Recovery	Gas Portion for 2023 Cost Recovery
		% Electric	% Gas		
Difference in funding limit and 2020 budget	$69,349,755	80%	20%	$55,479,804	$13,869,951
Total Cost Recovery:	**$69,349,755**			**$55,479,804**	**$13,869,951**

(a) The 2023 electric/gas split is forecasted to be 80%/20%.

EE Portfolio Administrators Cost Recovery

Tables 19a and 19c present the total cost recovery figures for PG&E, and Tables 19b and 19d present the total cost recovery amounts for BayREN, MCE, and PG&E's portion of 3C-REN, for 2022 and 2023 respectively.

These tables do not include a cost recovery request for San Jose Clean Energy's (SJCE) authorized three-year budget of $5.067M[73]. PG&E allocated $5.067m to SJCE out of PG&E's 2021 unspent and uncommitted funds and has transferred those funds to SJCE, as ordered by the Commission[74]. These tables also do not include a cost recovery request for Redwood Coast Energy Authority's (RCEA) authorized three-year budget of $1,896,704. PG&E transferred $1,896,704 to RCEA out of PG&E's 2020 unspent and uncommitted funds[75].

[73] Resolution E-5166: Certification of San Jose Clean Energy's Energy Efficiency Program Administration Plan. September 10, 2021.

[74] Ibid.

[75] Resolution E-5050: Certification of Redwood Coast Energy Authority's Energy Efficiency Program Administration Plan. June 3, 2020.

Table 19a: 2022 Total Portfolio Cost Recovery Budget for PG&E[76]

Cost Recovery Component	Total 2022 Cost Recovery Amount	Applicable Electric/Gas Split [(a)]		Electric Portion for 2022 Cost Recovery	Gas Portion for 2022 Cost Recovery
		Electric	Gas		
PG&E 2022 EE Portfolio Budget (Less Fuel Substitution Budget)	$ 244,994,312	82%	18%	$ 200,895,336	$ 44,098,976
PG&E 2022 Budget Forecasted to Support Fuel Substitution [(b)]	$ 2,658,715	100%	0%	$ 2,658,715	$ -
PG&E Portfolio Budget Subtotal	$ 247,653,027	82%	18%	$ 203,075,482	$ 44,577,545
PG&E 2021 Estimated Unspent and Uncommitted Funds for 2022 Offset [(c)]	$ -	N/A	N/A	$ -	$ -
2019 Unspent and Uncommitted Funds for 2022 Offset	$ (2,933,031)	76%	24%	$ (2,229,104)	$ (703,927)
2018 Unspent and Uncommitted Funds for 2022 Offset	$ (5,442,402)	84%	16%	$ (4,571,618)	$ (870,784)
2017 Unspent and Uncommitted Funds for 2022 Offset	$ (42,769)	84%	16%	$ (35,926)	$ (6,843)
2016 Unspent and Uncommitted Funds for 2022 Offset	$ (104,615)	82%	18%	$ (85,784)	$ (18,831)
CPUC EM&V 2016 Unspent and Uncommitted Funds for 2022 Offset	$ (11,723,301)	82%	18%	$ (9,613,107)	$ (2,110,194)
PG&E EM&V 2016 Unspent and Uncommitted Funds for 2022 Offset	$ (3,949,526)	82%	18%	$ (3,238,611)	$ (710,915)
CPUC EM&V 2013-15 Unspent and Uncommitted Funds for 2022 Offset	$ (4,246,520)	82%	18%	$ (3,482,146)	$ (764,374)
PG&E EM&V 2013-15 Unspent and Uncommitted Funds for 2022 Offset	$ (1,698,003)	82%	18%	$ (1,392,362)	$ (305,641)
2013-15 Unspent and Uncommitted Funds for 2022 Offset	$ (3,797,067)	82%	18%	$ (3,113,595)	$ (683,472)
PG&E Total Cost Recovery Budget	**$ 213,715,793**			**$ 175,313,229**	**$ 38,402,564**

[76] Revenue Fees and Uncollectible Account Expenses (RF&U) are not included in this cost recovery budget but will be added to electric funding to determine the revenue requirement when recovered in rates through the Annual Electric True-up (AET). The PG&E EE Portfolio 2022 and 2023 cost recovery amounts include estimates for certain benefit burden and other overhead costs; the 2022 figure has been determined through the 2020 General Rate Case (GRC) D.20-12-005 while the final figure for 2023 may change depending on the amounts or methodology approved by the Commission as part of PG&E's 2023-2026 GRC.

(a) The 2022 electric/gas split is forecasted to be 82%/18%. The 2021 electric/gas split of 83%/17% was approved by CPUC disposition to Advice 4303-G-A/5936-E-A. The 2020 electric/gas split of 70%/30% was approved by CPUC disposition to Advice 4207-G/5742-E. The 2019 electric/gas split of 76%/24% was approved via non-standard disposition of Advice 4011-G-B/5375-E-B. The electric/gas split applied for 2018 was based on the most recent split approved by CPUC disposition after the 2018 ABAL (which included the 2018 electric/gas split) was rejected via D.18-05-041. Thus, the electric/gas split applied for 2018 was the 2017 electric/gas split approved via disposition of Advice 3753-G-D/4901-E-D.

(b) Fuel substitution measures will be offered as part of several programs; this figure is the sum of incentive and non-incentive budget attributed to fuel substitution measures in those programs. Per D.19-08-009 and the Energy Division's 5/13/2020 memo regarding fuel substitution in new construction programs, greenfield new construction electrification measures are not included in the fuel substitution budget. See Section III.G. of this advice letter for more information on fuel substitution programs and efforts.

(c) These offset amounts are zero because, per D. 21-01-004, PG&E's 2020-2022 unspent and uncommitted funds are allocated to the Stimulus Program, as detailed in Sections K and L.

Table 19b: 2022 Total Portfolio Cost Recovery for BayREN, MCE and 3C-REN[77]

Cost Recovery Component	Total 2022 Cost Recovery Amount	Applicable Electric/Gas Split (a)		Electric Portion for 2022 Cost Recovery	Gas Portion for 2022 Cost Recovery
		Electric	Gas		
BayREN 2022 EE Portfolio Budget (including 4%EM&V)	$ 26,164,659	82%	18%	$ 21,455,021	$ 4,709,639
BayREN 2021 Estimated Unspent and Uncommitted Funds for 2022 Offset	$ -	83%	17%	$ -	$ -
BayREN 2020 Unspent and Uncommitted Funds for 2022 Offset	$ (3,119,002)	70%	30%	$ (2,183,301)	$ (935,701)
BayREN 2019 Unspent and Uncommitted Funds for 2022 Offset	$ (291,597)	76%	24%	$ (221,614)	$ (69,983)
BayREN Total (b)	$ 22,754,060			$ 19,050,106	$ 3,703,955
MCE 2022 EE Portfolio Budget (including 4% EM&V)	$ 14,704,132	82%	18%	$ 12,057,388	$ 2,646,744

[77] The offset amounts for REN and CCA estimates of unspent/uncommitted 2021 funds are listed as zero because estimates are not used for cost recovery offset purposes. 2021 unspent/uncommitted funds will be used to offset cost recovery after final amounts are available.

MCE 2021 Estimated Unspent and Uncommitted Funds for 2022 Offset	$ -	N/A	N/A	$ -	$ -
MCE 2020 Unspent and Uncommitted Funds for 2022 Offset	$ (78,573)	70%	30%	$ (55,001)	$ (23,572)
MCE 2019 Unspent and Uncommitted Funds for 2022 Offset	$ (236,608)	76%	24%	$ (179,822)	$ (56,786)
MCE Total [c]	$ 14,388,951			$ 11,822,565	$ 2,566,386
3C-REN 2022 EE Portfolio Budget (including 4%EM&V)	$ 4,411,503	82%	18%	$ 3,617,433	$ 794,071
3C-REN 2021 Estimated Unspent and Uncommitted Funds for 2022 Offset	$ -	83%	17%	$ -	$ -
3C-REN 2020 Unspent and Uncommitted Funds for 2022 Offset	$ (1,624,346)	70%	30%	$ (1,137,042)	$ (487,304)
3C-REN 2019 Unspent and Uncommitted Funds for 2022 Offset	$ (2,074,792)	76%	24%	$ (1,576,842)	$ (497,950)
3C-REN Total [d]	$ 712,365			$ 903,549	$ (191,183)
REN/CCA Total Cost Recovery Budget	**$ 37,855,377**			**$ 31,776,219**	**$ 6,079,158**

(a) The 2022 electric/gas split is forecasted to be 82%/18%. The 2021 electric/gas split of 83%/17% was approved by CPUC disposition to Advice 4303-G-A/5936-E-A. The 2020 electric/gas split of 70%/30% was approved by CPUC disposition to Advice 4207-G/5742-E. The 2019 electric/gas split of 76%/24% was approved via non-standard disposition of Advice 4011-G-B/5375-E-B. The electric/gas split applied for 2018 was based on the most recent split approved by CPUC disposition after the 2018 ABAL (which included the 2018 electric/gas split) was rejected via D.18-05-041. Thus, the electric/gas split applied for 2018 was the 2017 electric/gas split approved via disposition of Advice 3753-G-D/4901-E-D.

(b) BayREN budget total and 2020-2021 unspent/uncommitted amounts are based on BayREN emails on 10/26/21, 11/2/2021 and 11/4/2021.

(c) MCE budget total and 2019-2021 unspent/uncommitted amounts taken from MCE's draft 2022-2023 ABAL forecast emailed on 9/15/2021 and confirmed on 10/15/2021.

(d) The 3C-REN total budget was provided by 3C-REN in 10/28/2021 email, and the 2019-2021 Unspent and Uncommitted Funds for 2022 offset were provided via email by SCG as the lead IOU fiscal agent for 3C-REN on 11/2/2021.

Table 19c: 2023 Total Portfolio Cost Recovery Budget for PG&E[78]

Cost Recovery Component	Total 2023 Cost Recovery Amount	Applicable Electric/Gas Split[(a)]		Electric Portion for 2023 Cost Recovery	Gas Portion for 2023 Cost Recovery
		Electric	Gas		
PG&E 2023 EE Portfolio Budget (Less Fuel Substitution Budget)	$ 271,769,432	80%	20%	$ 217,415,546	$ 54,353,886
PG&E 2023 Budget Forecasted to Support Fuel Substitution [(b)]	$ 2,874,296	100%	0%	$ 2,874,296	$ -
PG&E Total Cost Recovery Budget	**$ 274,643,728**	80%	20%	**$ 219,714,982**	**$ 54,928,746**

(a) The 2023 electric/gas split is forecasted to be 80%/20%.

(b) Fuel substitution measures will be offered as part of several programs; this figure is the sum of incentive and non-incentive budget attributed to fuel substitution measures in those programs. Per D.19-08-009 and the Energy Division's 5/13/2020 memo regarding fuel substitution in new construction programs, greenfield new construction electrification measures are not included in the fuel substitution budget. See Section III.G. of this advice letter for more information on fuel substitution programs and efforts.

Table 19d: 2023 Total Portfolio Cost Recovery for BayREN, MCE and 3C-REN

Cost Recovery Component	Total 2023 Cost Recovery Amount	Applicable Electric/Gas Split[(a)]		Electric Portion for 2023 Cost Recovery	Gas Portion for 2023 Cost Recovery
		Electric	Gas		
BayREN 2023 EE Portfolio Budget (including 4% EM&V) [(b)]	$ 26,682,993	80%	20%	$ 21,346,394	$ 5,336,599
BayREN Total	$ 26,682,993			$ 21,346,394	$ 5,336,599
MCE 2023 EE Portfolio Budget (including 4% EM&V) [(c)]	$ 15,362,756	80%	20%	$ 12,290,205	$ 3,072,551

[78] Revenue Fees and Uncollectible Account Expenses (RF&U) are not included in this cost recovery budget but will be added to electric funding to determine the revenue requirement when recovered in rates through the Annual Electric True-up (AET). The PG&E EE Portfolio 2022 and 2023 cost recovery amounts include estimates for certain benefit burden and other overhead costs; the final figure for 2023 may change depending on the amounts or methodology approved by the Commission as part of PG&E's 2023-2026 General Rate Case (GRC).

MCE Total	$ 15,362,756			$ 12,290,205	$ 3,072,551
3C-REN 2023 EE Portfolio Budget (including 4% EM&V) (d)	$ 5,782,675	80%	20%	$ 4,626,140	$ 1,156,535
3C-REN Total	$ 5,782,675			$ 4,626,140	$ 1,156,535
REN/CCA Total Cost Recovery Budget	**$ 47,828,424**			**$ 38,262,739**	**$ 9,565,685**

(a) The 2023 electric/gas split is forecasted to be 80%/20%.
(b) BayREN budget total provided by BayREN via email on 10/26/2021.
(c) MCE budget total provided by MCE via email on 9/15/2021 and confirmed on 10/15/2021.
(d) The 3C-REN total budget was provided by 3C-REN in 10/28/2021 email and confirmed by SCG as the lead IOU fiscal agent for 3C-REN on 11/2/2021.

Cost recovery requests in this BBAL reflect budget needs of EE PAs authorized by the Commission as of October 31, 2021, except where those budget needs have already been addressed (e.g., RCEA and SJCE). If the Commission authorizes additional EE PAs, or EE PA budget that is different from what is shown in Tables 19b and 19d, after October 31, 2021, PG&E can work with Commission staff to determine the correct Advice Letter or other regulatory process by which PG&E can request Commission approval to incorporate those cost recovery needs into rates.

Total Cost Recovery

Tables 20a and 20b present the total cost recovery requests needed to fund the authorized EE portfolio administrators (PG&E, BayREN, MCE, and 3C-REN), and the CEC's School Stimulus Program in 2022 and 2023, respectively. These PA cost recovery requests reflect the total requested budgets of these PAs, after offset by unspent and uncommitted amounts not ordered in D. 21-01-004 to be committed to the Stimulus Program. The Schools Stimulus Program recovery requests reflect the budgets ordered in D. 21-01-004.

Table 20a – 2022 Total Cost Recovery Request – EE PAs and CEC Schools Stimulus Program

	Total 2022 Cost Recovery Amount	Applicable Electric/Gas Split (a)	
		Electric (82%)	Gas (18%)
PG&E (Portfolio and 4% EM&V)	$213,715,793	$175,313,229	$38,402,564
CEC (School Stimulus Program)	$80,908,048	$66,344,599	$14,563,449
BayREN (Portfolio and 4% EM&V)	$22,754,060	$19,050,106	$3,703,955
MCE (Portfolio and 4% EM&V)	$14,388,951	$11,822,565	$2,566,386
3C-REN (Portfolio and 4% EM&V)	$712,365	$903,549	($191,183)
Total Cost Recovery Request	**$332,479,218**	**$273,434,048**	**$59,045,170**

(a) The 2022 electric/gas split is forecasted to be 82%/18%.

Table 20b – 2023 Total Cost Recovery Request – EE PAs and CEC Schools Stimulus Program

	Total 2023 Cost Recovery Amount	Applicable Electric/Gas Split [(a)]	
		Electric (80%)	Gas (20%)
PG&E (Portfolio and 4% EM&V)	$274,643,728	$219,714,982	$54,928,746
CEC (School Stimulus Program)	$69,349,755	$55,479,804	$13,869,951
BayREN (Portfolio and 4% EM&V)	$26,682,993	$21,346,394	$5,336,599
MCE (Portfolio and 4% EM&V)	$15,362,756	$12,290,205	$3,072,551
3C-REN (Portfolio and 4% EM&V)	$5,782,675	$4,626,140	$1,156,535
Total Cost Recovery Request	**$391,821,907**	**$313,457,525**	**$78,364,381**

(a) The 2023 electric/gas split is forecasted to be 80%/20%.

In compliance with D. 14-10-046, PG&E will offset MCE's unspent funds against payments to be made to MCE under its authorized 2022 and 2023 electric EE portfolio budget. Following D. 19-12-021, and per the PG&E and BayREN/ABAG 2020-2022 contract, PG&E will offset year-end unspent amounts identified in BayREN's Budget Advice Letter from the following year payments to BayREN/ABAG based on their approved Budget Advice Letter portfolio budget.

M. Integrated Demand-Side Management (IDSM) Budget

D.18-05-041 directs each IOU PA to set aside a minimum of $1 million for the residential sector and a load-share-proportional fraction of $20 million for the commercial sector from each IOU PA's IDSM budget for testing and deployment of integration strategies.[79] In consultation and agreement with the IOUs, PG&E budgets $8 million of the required $20 million for the commercial sector. With an additional $1 million of IDSM budget for the residential sector, PG&E's budget for IDSM activities totals $9 million.

Table 21: Demand Response IDSM Funding Request in 2022 and 2023 Rates

Category	2022 PG&E Electric Demand Response Funds	2023 PG&E Electric Demand Response Funds
Energy Efficiency	$1,000,000	$1,000,000
Demand Response	$8,000,000	$8,000,000
Total PG&E	**$9,000,000**	**$9,000,000**

Regarding IDSM funding, RF&U is not included in this table but will be added to electric funding to determine the revenue requirement when recovered in rates through the AET.

Of PG&E's $9 million annual IDSM budget, in both 2022 and 2023, $1 million will be allocated to the EE portion of the IDSM budget, and $8 million will be allocated to the

[79] D. 18-05-041, OP 10.

Demand Response portion of the IDSM budget. The $1 million EE portion of the budget is embedded within the residential and ET sector budgets shown in Table 1. The $8 million IDSM budget related to Demand Response will continued to be tracked in the Demand Response Expense Balancing Accounting and recovered via the Distribution Revenue Adjustment Mechanism.

N. Metrics

Pursuant to D.18-05-041, PG&E reported on sector-level metrics and their associated targets for program years 2017, 2018, 2019 and 2020 as part of the 2017, 2018, 2019, and 2020 EE Annual Report filings filed on May 1, 2018, May 1, 2019, May 1, 2020, and May 1, 2021, respectively. The latter can be found in spreadsheet form on the CPUC's CEDARS website[80].

Pursuant to D. 21-05-031, metrics and criteria for market support and equity programs are currently under development and will be included in future filings.

Protests

*****Due to the COVID-19 pandemic, PG&E is currently unable to receive protests or comments to this advice letter via U.S. mail or fax. Please submit protests or comments to this advice letter to EDTariffUnit@cpuc.ca.gov and PGETariffs@pge.com*****

Pursuant to CPUC General Order 96-B, Section 7.5.1, PG&E hereby requests the protest period be shortened to five (5) calendar days.

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, facsimile or E-mail, no later than **January 12, 2022**, which is 5 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.

[80] Documents - CEDARS (sound-data.com)

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:

Sidney Bob Dietz II
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 requests that the Commission approve its 2022 and 2023 spending budgets of $247,653,027 and $274,643,728, respectively, and approve its 2022 and 2023 cost recovery budgets of $332,479,218 and $391,821,907, respectively, effective January 1, 2022. PG&E additionally requests that the Commission approve the forecasted 2022 electric/gas split 82%/18% associated with its 2022 EE program forecast for non-fuel-substitution cost recovery budget allocations effective **January 1, 2022**.

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 lists for **R.13-11-005** and **A.17-01-013 et al**. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: http://www.pge.com/tariffs/.

/S/

Sidney Bob Dietz II
Director, Regulatory Relations

Attachments:
Attachment A – Appendices
Attachment B – Supplemental Budget Tables
Attachment C – California Energy Data and Reporting System (CEDARS) Filing Confirmation

cc: Peter Franzese, Energy Division
Service List R.13-11-005
Service List A.17-01-013 et al.

California Public Utilities Commission

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 (U 39 M)

Utility type:
- [x] ELC
- [x] GAS
- [ ] WATER
- [ ] PLC
- [ ] HEAT

Contact Person: Stuart Rubio
Phone #: (415) 973-4587
E-mail: PGETariffs@pge.com
E-mail Disposition Notice to: SHR8@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) #: 4521-G-A/6385-E-A

Tier Designation: 2

Subject of AL: Supplemental: PG&E's 2022-2023 Energy Efficiency Biennial Budget Advice Letter in Compliance with Decisions 15-10-028, 18-05-041, and 21-05-031

Keywords (choose from CPUC listing): Compliance

AL Type: [ ] Monthly [ ] Quarterly [ ] Annual [ ] One-Time [x] Other: Biennial

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #:
D.15-10-028, D.18-05-041, and D.21-05-031

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: N/A

Confidential treatment requested? [ ] Yes [x] 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 [x] No

Requested effective date: 1/1/22

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: N/A

Service affected and changes proposed[1]: N/A

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

[1]Discuss in AL if more space is needed.

Clear Form

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

Clear Form

PG&E 2022-2023 BBAL Attachment A
Appendix Tables

All Attachment A Appendix Tables are downloadable on PG&E's 2022-2023 Budget Filing dashboard on CEDARS.

Appendix Table	Content
Table 1	Bill Payer Impacts
Table 2	Rates Rev
Table 3	Funding Source
Table 4	Program Budget
Table 4.1	Program Changes
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Table 7	PA PY Budget Savings
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Table 10	Portfolio FTE
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Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
(This Table applies only to the IOU PAs)

Table 1 -Bill Payer Impacts - Rates by Customer Class				
	Electric System Average Bundled Rate (Res and Non-Res) $/kwh	Gas Bundled Average Residential Rate $/therm	Total Average Annual Bill Savings by Year ($)	Total Average Lifecycle Bill Savings ($)
Present Rates - System Average				
2021*	$ 0.23251	$ 1.817	$ 369,610,134	$ 4,163,284,822
2022	$ 0.23231	$ 1.813	$ 448,918,317	$ 5,338,488,218
2023	$ 0.23283	$ 1.817	$ 477,449,577	$ 5,785,421,629

* Based on Electric rates effective as of August 1, 2021, and Gas rates effective as of June 1, 2021. 2022 and 2023 rates are based on 2021 present rates with the respective year's EE incremental impact.

Total Average Annual Bill Savings by Year ($) Electric Average Rate (Res and Non-Res) $/kwh * Total First Year Electric Net Savings KWH + Gas Average Rate(Res and Non-Res) $/therm * Total First Year Gas Net Savings Therm

Total Average Lifecycle Bill Savings ($) Electric Average Rate (Res and Non-Res) $/kwh * Total Lifecycle Electric Net Savings KWH + Gas Average Rate(Res and Non-Res) $/therm * Total Lifecycle Gas Net Savings Therm

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
(This Table applies only to the IOU PAs)

Table 2a - Electric Bill Payer Impacts - Current and Proposed Revenues and Rates, Total and Energy Efficiency, by Customer Class

Customer Classes	2021 Proposed Energy Efficiency Electric Annual Revenue Change $000	2021 Proposed Percentage Change In Electric Revenue and Rates	2021 Electric Average Rate $/kWh	2021 Energy Efficiency Portion of Electric Average Rate $/kWh	2022 Proposed Energy Efficiency Electric Annual Revenue Change $000	2022 Proposed Percentage Change In Electric Revenue and Rates	2022 Electric Average Rate $/kWh	2022 Energy Efficiency Portion of Electric Average Rate $/kWh	2023 Proposed Energy Efficiency Electric Annual Revenue Change $000	2023 Proposed Percentage Change In Electric Revenue and Rates	2023 Electric Average Rate $/kWh	2023 Energy Efficiency Portion of Electric Average Rate $/kWh
Bundled [1]												
Residential	$59,129	1.85%	$0.24727	$0.00450	($4,533)	-0.14%	$0.24692	$0.00415	$7,992	0.25%	$0.24753	$0.00476
Commercial - Small	$12,300	1.82%	$0.27493	$0.00493	($943)	-0.14%	$0.27455	$0.00455	$1,662	0.24%	$0.27521	$0.00521
Commercial - Medium	$9,956	1.68%	$0.24268	$0.00401	($763)	-0.13%	$0.24237	$0.00370	$1,346	0.22%	$0.24291	$0.00424
Commercial - Large	$12,055	1.71%	$0.20915	$0.00352	($924)	-0.13%	$0.20888	$0.00325	$1,629	0.23%	$0.20935	$0.00372
Standby	$1,064	2.54%	$0.13088	$0.00324	($82)	-0.19%	$0.13063	$0.00299	$144	0.34%	$0.13107	$0.00343
Agricultural	$16,997	1.39%	$0.25079	$0.00344	($1,303)	-0.11%	$0.25053	$0.00318	$2,297	0.19%	$0.25100	$0.00365
Industrial	$10,097	1.53%	$0.15945	$0.00240	($774)	-0.12%	$0.15927	$0.00222	$1,365	0.20%	$0.15959	$0.00254
Direct Access Service [2]												
Residential	$66,846	2.30%	$0.19991	$0.00450	($5,124)	-0.17%	$0.19956	$0.00415	$9,034	0.30%	$0.20017	$0.00476
Commercial - Small	$23,186	2.47%	$0.20453	$0.00493	($1,777)	-0.18%	$0.20415	$0.00455	$3,134	0.33%	$0.20481	$0.00521
Commercial - Medium	$20,280	2.44%	$0.16851	$0.00401	($1,555)	-0.18%	$0.16820	$0.00370	$2,741	0.32%	$0.16874	$0.00424
Commercial - Large	$33,596	2.76%	$0.13080	$0.00352	($2,575)	-0.21%	$0.13053	$0.00325	$4,541	0.36%	$0.13100	$0.00372
Streetlights	$732	2.43%	$0.20299	$0.00482	($56)	-0.18%	$0.20262	$0.00445	$99	0.32%	$0.20327	$0.00510
Standby	$158	2.32%	$0.14278	$0.00324	($12)	-0.17%	$0.14253	$0.00299	$21	0.31%	$0.14297	$0.00343
Agricultural	$3,737	2.06%	$0.17051	$0.00344	($286)	-0.15%	$0.17025	$0.00318	$505	0.27%	$0.17072	$0.00365
Industrial	$24,624	2.97%	$0.08515	$0.00245	($1,888)	-0.22%	$0.08497	$0.00227	$3,328	0.50%	$0.08530	$0.00260
Departed Load	$6,929	22.82%			($3,044)	-8.16%			$569	1.66%		

* = Based on August 1, 2021 effective Electric rates

Table 2b - Gas Bill Payer Impacts - Current and Proposed Revenues and Rates, Total and Energy Efficiency, by Customer Class

Customer Classes	2021 Proposed Energy Efficiency Gas Annual Revenue Change $000	2021 Proposed Percentage Change In Gas Revenue and Rates	2021 Gas Average Rate $/therm	2021 Energy Efficiency Portion of Gas Average Rate $/therm	2022 Proposed Energy Efficiency Gas Annual Revenue Change $000	2022 Proposed Percentage Change In Gas Revenue and Rates	2022 Gas Average Rate $/therm	2022 Energy Efficiency Portion of Gas Average Rate $/therm	2023 Proposed Energy Efficiency Gas Annual Revenue Change $000	2023 Proposed Percentage Change In Gas Revenue and Rates	2023 Gas Average Rate $/therm	2023 Energy Efficiency Portion of Gas Average Rate $/therm
Core Retail Bundled												
Residential - Non-CARE	$18,131	0.90%	$1.817	$0.015	($4,989)	-0.30%	$1.813	$0.011	$4,300	0.20%	$1.817	$0.015
Residential - CARE	$6,482	0.90%	$1.425	$0.015	($1,783)	-0.30%	$1.421	$0.011	$1,537	0.20%	$1.424	$0.015
Commercial - Small	$15,387	2.60%	$1.311	$0.035	($4,234)	-0.70%	$1.302	$0.025	$3,649	0.60%	$1.310	$0.034
Commercial - Large	$845	2.50%	$0.935	$0.023	($232)	-0.70%	$0.929	$0.017	$200	0.60%	$0.934	$0.022
Commercial - Natural Gas Vehicle												
Core Retail - Transportation Only												
Residential - Non-CARE	$2,175	1.20%	$1.441	$0.015	($598)	-0.30%	$1.437	$0.011	$516	0.30%	$1.440	$0.015
Residential - CARE	$778	1.20%	$1.048	$0.015	($214)	-0.30%	$1.044	$0.011	$184	0.30%	$1.048	$0.015
Commercial - Small	11380	3.70%	$0.955	$0.035	($3,131)	-1.00%	$0.946	$0.025	$2,699	0.90%	$0.954	$0.034
Commercial - Large	$735	3.90%	$0.616	$0.023	($202)	-1.00%	$0.610	$0.017	$174	0.90%	$0.616	$0.022
Commercial - Natural Gas Vehicle												
Noncore- Transportation Only												
Industrial - Distribution	$8,814	7.20%	$0.520	$0.035	($2,425)	-1.90%	$0.511	$0.025	$2,090	1.60%	$0.519	$0.034
Industrial - Transmission	$16,563	5.00%	$0.269	$0.010	($4,557)	-1.30%	$0.266	$0.008	$3,928	1.10%	$0.268	$0.010
Industrial - Backbone	$168	13.00%	$0.150	$0.010	($46)	-3.20%	$0.147	$0.008	$40	2.80%	$0.150	$0.010
Electric Generation												
Natural Gas Vehicle												
Wholesale												
Unbundled Backbone and Storage												
Total Annual Revenue Requirement	$81,458	1.70%			($22,413)	-0.50%			$19,319	0.40%		

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023

Table 3 - Budget and Cost Recovery by Funding Source

Table 3a - PA Spending Budget Request by Funding Source

PA EE Programs and EM&V	2022	2023
Annual PA Spending Budget Request (Program and EM&V total)	$ 247,653,027	$ 274,643,728
CEC AB 841 Program Budget Request		
Applicable percentage of difference between funding limitation and 2020 budget [1]	$ 80,908,048	$ 69,349,755
Plus 2020 and Beyond Uncommitted and Unspent Carryover Balance	$ -	$ -
PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	**$ 328,561,075**	**$ 343,993,483**

1 Applicable percentage is 70% for 2022 and 60% for 2023.

Table 3b - Budget by Funding Source

Portfolio Budget (Before Carryover)	2022 Budget	2022 %Allocation	2023 Budget	2023 %Allocation
Electric Procurement EE Funds	$ 269,420,082	82%	$ 275,194,786	80%
Gas PPP Surcharge Funds	$ 59,140,994	18%	$ 68,798,697	20%
Total Funds	**$ 328,561,075**		**$ 343,993,483**	

Table 3c - Revenue Requirement for Cost Recovery by Funding Source

Authorized Funding in Rates (including Unspent/Uncommitted Funds)	2022 Revenue Requirement	2022 %Allocation after Carryover adjustment	2023 Revenue Requirement	2023 %Allocation after Carryover adjustment
Electric Procurement EE Funds	$ 241,657,829	82%	$ 275,194,786	80%
Gas PPP Surcharge Funds	$ 52,966,013	18%	$ 68,798,697	20%
Total Funds	**$ 294,623,842**		**$ 343,993,483**	

Table 3d - Unspent/Uncommitted Carryover Funds (in positive $ amounts)

	2022			2023		
Program Unspent/Uncommitted Funds	**Electric**	**Gas**	**Total**	**Electric**	**Gas**	**Total**
Pre-2020	$ 10,036,027	$ 2,283,858	$ 12,319,884	$ -	$ -	$ -
2020	$ -	$ -	$ -	$ -	$ -	$ -
2021	$ -	$ -	$ -	$ -	$ -	$ -
2022				$ -	$ -	$ -
Total	$ 10,036,027	$ 2,283,858	$ 12,319,884	$ -	$ -	$ -

	2022			2023		
EM&V Unspent/Uncommitted Funds	**Electric**	**Gas**	**Total**	**Electric**	**Gas**	**Total**
Pre-2020	$ 17,726,227	$ 3,891,123	$ 21,617,350	$ -	$ -	$ -
2020	$ -	$ -	$ -	$ -	$ -	$ -
2021	$ -	$ -	$ -	$ -	$ -	$ -
2022				$ -	$ -	$ -
Total	$ 17,726,227	$ 3,891,123	$ 21,617,350	$ -	$ -	$ -

	2022			2023		
Total Unspent/Uncommitted Funds	**Electric**	**Gas**	**Total**	**Electric**	**Gas**	**Total**
Pre-2020	$ 27,762,253	$ 6,174,981	$ 33,937,234	$ -	$ -	$ -
2020	$ -	$ -	$ -	$ -	$ -	$ -
2021	$ -	$ -	$ -	$ -	$ -	$ -
2022				$ -	$ -	$ -
Total	$ 27,762,253	$ 6,174,981	$ 33,937,234	$ -	$ -	$ -

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023

Table 3 - Budget and Cost Recovery by Funding Source

Table 3e - Total Requested Revenue Recovery 2022-2023 Portfolio - Demand Response & Energy Efficiency [1,2, 3]

	2022				2023			
	Demand Response	Energy Efficiency			Demand Response	Energy Efficiency		
	Electric Demand Response Funds	Electric Energy Efficiency Funds	Natural Gas Public Purpose Funds	Total Energy Efficiency Funds	Electric Demand Response Funds	Electric Energy Efficiency Funds	Natural Gas Public Purpose Funds	Total Energy Efficiency Funds
Program Funds - PG&E [4]	$ 8,000,000	$ 167,190,210	$ 36,619,462	$ 203,809,673	$ 8,000,000	$ 210,926,383	$ 52,731,596	$ 263,657,979
School Stimulus Program Funds - CEC		$ 66,344,599	$ 14,563,449	$ 80,908,048		$ 55,479,804	$ 13,869,951	$ 69,349,755
Program and EM&V Funds - REN [5]		$ 19,953,654	$ 3,512,771	$ 23,466,425		$ 25,972,534	$ 6,493,134	$ 32,465,668
Program and EM&V Funds - CCA [5]		$ 11,822,565	$ 2,566,386	$ 14,388,951		$ 12,290,205	$ 3,072,551	$ 15,362,756
PG&E 4% EM&V [6]		$ 8,123,019	$ 1,783,102	$ 9,906,121		$ 8,788,599	$ 2,197,150	$ 10,985,749
Revenue Recovery Budget Total	**$ 8,000,000**	**$ 273,434,048**	**$ 59,045,170**	**$ 332,479,218**	**$ 8,000,000**	**$ 313,457,525**	**$ 78,364,381**	**$ 391,821,907**

Notes:

1 Recovery request reflects total budget offset by reductions from past unspent funds, and is consistent with funding approved in D. 09-09-047, D. 12-11-015, D.14-10-046 and D.15-10-028, D.18-05-041 and D.21-01-004.

2 REN and CCA information provided by BayREN, MCE and 3C-REN/SCG as the lead IOU fiscal agent on behalf of 3C-REN.

3 The PG&E, REN and CCA 2022 Electric and Gas funds cells in this table had to be manually populated because the formulas were applying the 2022 split of 82/18 which is not the correct split to apply to calculations involving the unspent/uncommitted carryover amounts from previous program years, each of which has a specific electric/gas split. Tables 19a-d in PG&E's main BBAL document lay out the cost recovery calculations and the specific electric/gas split for each carryover amount.

4 Program Funds represents the total PG&E program portfolio budget minus any relevant unspent/uncommitted funds that offset the recovery request

5 These are total REN and CCA revenue request amounts and equal the relevant PA program plus 4% EM&V budgets minus any of that REN's/CCA's unspent/uncommitted carryover amounts.

6 This is total EM&V for PG&E's portfolio, i.e. 4%; this amount incudes PG&E's and the CPUC's EM&V portions.

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 4.1– 2022- 2023 Program Changes

Programs to be closed with the disposition of 2022-2023 BBAL **Programs with enhanced budgets (>40% budget increase)**

Program ID	PA Justification	Third Party Implementer or Core	Statewide or Local	Programs to be Closed with the Disposition of 2022-2023 ABAL	% change	2020 Claimed TRC	2021 (Q2) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	Year Program Started (a)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2022-2023 ABAL planning and new 3P contracting	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts' ramp up
PGE210210	Incoming 3P program will serve these customers	Third-Party	Local	Industrial Recommissioning Program	n/a	0.95	0.00	n/a	n/a	$ 1,487,409	$0	$0	2013	12/31/2021	n/a
PGE21027	Incoming 3P program will serve these customers	Third-Party	Local	Heavy Industry Energy Efficiency Program	n/a	0.86	0.13	n/a	n/a	$ 2,730,552	$0	$0	2013	12/31/2021	n/a
PGE210143	Incoming 3P program will serve these customers	Third-Party	Local	Hospitality Program	n/a	0.66	3.81	n/a	n/a	$ 3,024,456	$0	$0	2017	12/31/2021	n/a
PGE_Res_002c [b]	Being replaced by incoming 3P program PGE_Res_002d	Third-Party	Local	Residential Energy Advisor - Home Energy Reports	n/a	n/a	1.37	n/a	n/a	$ 8,459,626	$0	$0	2013	12/31/2021	n/a
PGE_Res_001d [c]	Vendor is ceasing to offer progam	Third-Party	Local	Pay for Performance - Home Energy Optimization	n/a	n/a	0.00	n/a	n/a	$ 2,687,371	$0	$0	2018	12/31/2021	n/a
PGE21072	Incoming SW 3P Program will serve these customers	Core	Statewide	Connections	n/a	0.00	0.00	n/a	n/a	$ 620,112	$0	$0	2013	12/31/2021	n/a

(a) 2013 is the earliest program start year in this table because the majority of current Program IDs were introduced in 2013. Some programs may have been present prior to 2013 under a different (or possibly the same) program ID.

(b) PGE_Res_002a, PGE_Res_002b, and PGE_Res_002c are program IDs for the Residential Energy Advisor program activities that were previously forecasted and reported through 2020 under Program ID PGE21001

(c) PGE_Res_001a, PGE_Res_001b, PGE_Res_001c, and PGE_Res_001d are Program IDs for the four Pay for Performance implementers of the Pay for Performance program activities that were previously forecasted and reported through 2020 under Program ID PGE210010.

Programs to be closed upon completion of commitments

Program ID	PA Justification	Third Party Implementer or Core	Statewide or Local	Programs to be Closed with the Disposition of 2022-2023 ABAL	% change	2020 Claimed TRC	2021 (Q2) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	Year Program Started (a)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2022-2023 ABAL planning and new 3P contracting	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts' ramp up (b)
PGE21005	Finishing existing pipeline and ramping down in anticipation of new statewide program overlap	Core	Local	Residential New Construction	-64%	0.17	0.32	0.34	n/a	$ 3,941,698	$ 1,405,484	$ -	2013	12/31/2022	n/a
PGE21007	Finishing existing pipeline and ramping down in anticipation of new statewide program overlap	Core	Local	California New Homes Multifamily	-30%	0.25	0.34	0.27	n/a	$ 2,515,018	$ 1,761,564	$ -	2013	1/1/2023	n/a
PGE21062	Extended into 2022 to gap-fill for incoming third-party programs	Core	Local	Technology Assessments	24%	0.00	0.00	0.00	n/a	$ 1,462,258	$ 1,819,090	$ -	2013	n/a	6/30/2022
PGE21063	Extended into 2022 to gap-fill for incoming third-party programs	Core	Local	Technology Introduction Support	-68%	0.00	0.00	0.00	n/a	$ 3,327,076	$ 1,055,137	$ -	2013	n/a	6/30/2022
PGE2110051	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap	Third-Party	Local	Local Government Energy Action Resources (LGEAR)	-40%	0.44	0.50	0.51	n/a	$ 3,041,724	$ 1,813,589	$ -	2013	n/a	TBD/2022
PGE2110011	Extended into 2022 to gap-fill for incoming third-party programs	Core	Statewide	California Community Colleges	-70%	0.11	0.43	0.12	0.20	$ 1,221,073	$ 360,934	$ 73,325	2013	n/a	TBD/2022
PGE2110012	Extended into 2022 to gap-fill for incoming third-party programs	Core	Statewide	University of California/California State University	-51%	0.52	0.39	0.29	0.31	$ 1,862,921	$ 920,776	$ 139,928	2013	n/a	TBD/2022
PGE_Res_001a [c]	Extended into 2022 to gap-fill for incoming third-party programs	Third-Party	Local	Pay for Performance - Comfortable Home Rebates	7%	n/a	0.13	0.29	n/a	$ 3,472,921	$ 3,723,550	$ -	2016	n/a	TBD/2022
PGE211025	Finishing existing project pipeline in anticipation of SW replacement program. Program not accepting new applications	Core	Local	Savings By Design (SBD)	-63%	0.17	0.33	0.49	0.39	$ 1,287,816	$ 471,581	$ 602,862	2013	n/a	n/a
PGE2110013	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap	Core	Local	State of California	-79%	0.00	0.00	2.18	0.84	$ 619,000	$ 130,465	$ 121,041	2013	12/31/2021	n/a
PGE2110014	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap	Core	Local	Department of Corrections and Rehabilitation	-54%	0.69	0.00	0.93	0.83	$ 798,914	$ 369,451	$ 203,246	2013	12/31/2021	n/a
PGE_Res_002b [d]	Program being extended into 2022 to ensure continuity in offerings until third-party program ramps up	Third-Party	Local	Residential Energy Advisor - Marketplace	-74%	n/a	0.00	0.00	n/a	$ 1,486,202	$ 387,482	$ -	2013	12/31/2021	TBD/2022
PGE21002	Program being extended into 2022 to ensure continuity inofferings until Statewide Plug Load and Appliance Program ramps up	Core	Local	Residential Energy Efficiency	-14.49%	0.51	0.43	0.74	n/a	$ 954,279	$ 816,021	$ -	2013	N/A	TBD/2022

(a) 2013 is the earliest program start year in this table because the majority of current Program IDs were introduced in 2013. Some programs may have been present prior to 2013 under a different (or possibly the same) program ID.

(b) In some cases the contract end date is unknown at the month level, in which case months are marked "TBD". Contract extension dates for program budgets increasing or decreasing by 40% or more are marked as "n/a" because contracts will be in place at least through the end of 2022.

(c) PGE_Res_001a, PGE_Res_001b, PGE_Res_001c, and PGE_Res_001d are Program IDs for the four Pay for Performance implementers of the Pay for Performance program activities that were previously forecasted and reported through 2020 under Program ID PGE210010.

(d) PGE_Res_002a, PGE_Res_002b, and PGE_Res_002c are program IDs for the Residential Energy Advisor program activities that were previously forecasted and reported through 2020 under Program ID PGE21001

Programs with reduced budgets (>40% budget decrease), to continue in 2022 or 2023

Program ID	PA justification (a)	Third party implementer or Core	Statewide	Programs with reduced budgets (>40% budget decrease)	% change	2020 Claimed TRC	2021 (Q2) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	Year program started (a)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2022-2023 ABAL planning and new 3P contracting	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts ramp up , or mark "NEW 3P" program if program is result of 3P solicitation process per D1801004 (b)
PGE_Res_002b [c]	Program is expected to operate into approximately mid-2022 and plans to ramp down in coordination with Marketplace Program ramp up	Third-Party	Local	Residential Energy Advisor - Marketplace	-74%	n/a	0.00	0.00	n/a	$ 1,486,202	$ 387,482	$ -	2013	n/a	n/a
PGE21005	Ramping down due to overlap with new SW programs PGE_SW_NC_Res_electric and PGE_SW_NC_Res_mixed	Core	Local	Residential New Construction	-64%	0.17	0.32	0.34	n/a	$ 3,941,698	$ 1,405,484	$ -	2013	n/a	n/a
PGE211025	Finishing existing project pipeline in anticipation of SW replacement program. Program not accepting new applications.	Core	Local	Savings by Design (SBD)	-63%	0.17	0.33	0.49	0.39	$ 1,287,816	$ 471,581	$ 602,862	2013	n/a	n/a
PGE21031	Ramping down to allow for third party program ramp up	Core	Local	Agricultural Calculated Incentives	-76%	0.82	0.58	0.66	1.40	$ 5,332,820	$ 1,280,584	$ 972,782	2013	n/a	n/a
PGE21032	Ramping down to allow for third party program ramp up	Core	Local	Agricultural Deemed Incentives	-74%	0.80	0.29	0.32	0.34	$ 2,505,449	$ 661,953	$ 682,486	2013	n/a	n/a
PGE2110011	Ramping down due to overlap with new SW program PGE_SW_IP_Colleges	Core	Local	California Community Colleges	-70%	0.11	0.43	0.12	0.20	$ 1,221,073	$ 360,934	$ 73,325	2013	n/a	n/a
PGE2110012	Ramping down due to overlap with new SW program PGE_SW_IP_Colleges	Core	Local	University of California/California State University	-51%	0.52	0.39	0.29	0.31	$ 1,862,921	$ 920,776	$ 139,928	2013	n/a	n/a
PGE2110051	Ramping down to allow for new local third-party program ramp up	Third-Party	Local	Local Government Energy Action Resources (LGEAR)	-40%	0.44	0.50	0.51	n/a	$ 3,041,724	$ 1,813,589	$ -	2013	n/a	n/a
PGE2110013	Ramping down due to overlap with new SW program PGE_SW_IP_Gov	Core	Local	State of California	-79%	0.00	0.00	2.18	0.84	$ 619,000	$ 130,465	$ 121,041	2013	n/a	n/a
PGE2110014	Ramping down due to overlap with new SW program PGE_SW_IP_Gov	Core	Local	Department of Corrections and Rehabilitation	-54%	0.69	0.00	0.93	0.83	$ 798,914	$ 369,451	$ 203,246	2013	n/a	n/a
PGE_SW_CSA_Appl	Budget reduction due to reduced CEC activity on Title 20 in 2022	Third-Party	Statewide	State Appliance Standards Advocacy	-51%	n/a	13.07	15.84	14.58	$ 1,693,770	$ 833,303	$ 833,303	2020	n/a	n/a
PGE21063	Ramping down to allow for new local third-party program ramp up	Core	Local	Technology Introduction Support	-68%	0.00	0.00	0.00	n/a	$ 3,327,076	$ 1,055,137	$ -	2013	n/a	n/a

(a) 2013 is the earliest program start year in this table because the majority of current Program IDs were introduced in 2013. Some programs may have been present prior to 2013 under a different (or possibly the same) program ID.

(b) In some cases the contract end date is unknown at the month level, in which case months are marked "TBD". Contract extension dates for program budgets increasing or decreasing by 40% or more are marked as "n/a" because contracts will be in place at least through the end of 2022.

(c) PGE_Res_002a, PGE_Res_002b, and PGE_Res_002c are program IDs for the Residential Energy Advisor program activities that were previously forecasted and reported through 2020 under Program ID PGE21001

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 4.1– 2022- 2023 Program Changes

Programs with enhanced budgets (>40% budget increase)

Program ID	PA justification	Third party implementer or Core	Statewide	Programs with enhanced budgets (>40% budget increase)	% change	2020 Claimed TRC	2021 (Q2) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	Year program started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2022-2023 ABAL planning and new 3P contracting (b)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts ramp up , or mark "NEW 3P" program if program is result of 3P solicitation process per D1801004 (a)
PGE_Res_001b [b]	Program budget increase reflects extended enrollment period and resulting in additional customer enrollment	Third-Party	Local	Pay for Performance - Home Intel	179%	n/a	0.25	0.12	0.12	$ 665,053	$ 1,856,039	$ 1,906,631	2017	n/a	n/a
PGE_Res_001c [b]	Program budget increase reflects extended enrollment period and resulting in additional customer enrollment	Third-Party	Local	Pay for Performance - Home Energy Rewards	119%	n/a	0.29	0.63	0.64	$ 756,158	$ 1,653,164	$ 1,703,179	2017	n/a	n/a
PGE_SW_PLA	Ramp up activities for statewide third-party program budget set by lead PA	Third-Party	Statewide	Plug Load and Appliance	103%	n/a	0.00	0.86	1.14	$ 3,306,000	$ 6,719,162	$ 6,959,307	2021	n/a	n/a
PGE_Com_001	This is a new local third-party program ramping up	Third-Party	Local	Grocery Comprehensive Retrofit and Commissioning	156%	0.00	0.00	1.64	1.52	$ 919,475	$ 2,356,445	$ 2,371,780	2021	n/a	n/a
PGE_Com_002	This is a new local third-party program ramping up	Third-Party	Local	Smart Labs	98%	0.00	0.00	1.32	1.54	$ 732,473	$ 1,453,846	$ 1,671,560	2021	n/a	n/a
PGE_SW_UL	Ramp up activities for new SW third-party program budget set by lead PA	Third-Party	Statewide	Lighting (Upstream)	83%	n/a	0.00	1.07	1.14	$ 3,324,672	$ 6,099,494	$ 6,235,039	2021	n/a	n/a
PGE_Ag_001	This is a new local third-party program ramping up	Third-Party	Local	Agriculture Energy Savings Action Plan	108%	0.00	0.31	1.20	1.30	$ 5,747,864	$ 11,959,504	$ 19,466,139	2021	n/a	n/a
PGE_Ind_001b [c]	Program budget increase reflects increased customer enrollment	Third-Party	Local	Industrial SEM - Manufacturing	65%	n/a	0.00	2.09	3.75	$ 4,729,376	$ 7,812,054	$ 19,466,139	2018	n/a	n/a
PGE_Ind_002	This is a new local third-party program ramping up	Third-Party	Local	Business Energy Performance Program	52%	0.00	1.58	1.85	1.96	$ 5,935,884	$ 9,023,467	$ 10,834,070	2021	n/a	n/a
PGE_Ind_003	This is a new local third-party program ramping up	Third-Party	Local	Industrial Systems Optimization Program	71%	0.00	0.03	1.38	1.53	$ 4,715,582	$ 8,068,441	$ 6,541,649	2021	n/a	n/a
PGE_Pub_010	This is a new local third-party program ramping up	Third-Party	Local	RAPIDS Wastewater Treatment Optimization Program	191%	0.00	0.00	1.05	1.42	$ 630,065	$ 1,835,573	$ 2,853,415	2021	n/a	n/a
PGE_SW_IP_Gov	Ramp up activities for new SW third-party program	Third-Party	Statewide	Institutional Partnerships: DGS and DoC	258%	n/a	n/a	0.27	1.02	$ 190,000	$ 679,600	$ 1,929,021	2021	n/a	n/a
PGE_SW_CSA_Natl	Increased budget necessary to support increased DOE advocacy	Core	Statewide	National Codes & Standards Advocacy	55%	n/a	1.96	2.65	2.73	$ 1,569,630	$ 2,430,097	$ 2,430,097	2020	n/a	n/a
PGE_SW_WET_CC	This is a new third-party statewide program ramping up	Third-Party	Statewide	WET Career Connections	71%	n/a	n/a	0.00	0.00	$ 266,000	$ 456,000	$ 456,000	2021	n/a	n/a
PGE_SW_WET_Work	This is a new third-party statewide program ramping up	Third-Party	Statewide	WET Career and Workforce Readiness	42%	n/a	n/a	0.00	0.00	$ 561,943	$ 800,761	$ 862,427	2021	n/a	n/a

(a) In some cases the contract end date is unknown at the month level, in which case months are marked "TBD". Contract extension dates for program budgets increasing or decreasing by 40% or more are marked as "n/a" because contracts will be in place at least through the end of 2022.

(b) PGE_Res_001a, PGE_Res_001b, PGE_Res_001c, and PGE_Res_001d are Program IDs for the four Pay for Performance implementers of the Pay for Performance program activities that were previously forecasted and reported through 2020 under Program ID PGE210010.

(c) PGE_Ind_001a and PGE_Ind_001b are Program IDs for the two Industrial Strategic Energy Management program activities that were previously forecasted and reported through 2020 under Program ID PGE21030

Programs that are new in 2022 or 2023

Program ID	PA Justification	Third party implementer or Core	Statewide	Programs that are new in 2022 or 2023		2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	MM/YY program to start	MM/YY Program is due to sunset; and flag as "NEW 3P" program if program is result of 3P solicitation process per D1801004	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts ramp up , or mark "NEW 3P" program if program is result of 3P solicitation process per D1801004
PGE_Res_Equity	Planning local program solicitation	Third-Party	Local	Residential Equity Placeholder		0.00	0.00	$ -	$ -	$ 3,448,906	TBD/2023	New 3P	
PGE_Res_002e	Planning local program solicitation	Third-Party	Local	New Marketplace Placeholder		0.00	0.00	$ -	$ 1,219,000	$ 1,318,227	TBD/2022	New 3P	
PGE_Com_SmallBiz	Planning local program solicitation	Third-Party	Local	New Small/Micro Business Placeholder		0.00	0.00	$ -	$ 1,904,883	$ 5,263,331	TBD/2022	New 3P	
PGE_SW_ETP_Elec	Other IOU statewide program solicitation and planning	Third-Party	Statewide	Emerging Technologies Program, Electric		0.00	0.00	$ -	$ 6,596,940	$ 8,386,780	TBD/2022	New 3P	
PGE_SW_IP_Colleges	Other IOU statewide program solicitation and planning	Third-Party	Statewide	Institutional Partnerships: UC/CSU/CCC		1.25	1.25	$ -	$ 906,866	$ 2,797,702	TBD/2022	New 3P	
PGE_SW_WP	Other IOU statewide program solicitation and planning	Third-Party	Statewide	Water/wastewater pumping		1.25	1.25	$ -	$ 906,866	$ 2,797,702	TBD/2022	New 3P	
PGE_SW_HVAC_QIQM	Other IOU statewide program solicitation and planning	Third-Party	Statewide	Statewide Residential QI/QM		0.00	0.00	$ -	$ -	$ 3,146,400	TBD/2023	New 3P	

Pa Name: Pacific Gas and Electric Company
Budget Year: 2020-2021

Table 4 - Budget, Spent, Unspent, Carryover Details

												2020																	2020															
New/Existing Program #	Discontinued Program #	Program Name	Target Energy	Program Type	Business Sector	Portfolio Segment *	Pre-2020 Unspent/Unused/Unallocated EE Funds	2021 Authorized Budget	2021 Forecasted Unspent/ Unencumbered Funds as of 7/31/2021	2021 Budget Spent as of 07/31/2021	Administration	Marketing/ Outreach	Direct Implementation Non-Incentive	Incentive/Rebate	2022 PA Spending Budget Request	2022 PA Pre-2020 Unexpended and Unspent Carryover Balance	2022 PA Revenue Requirement Request	First Year First kWh	First Year First kW	First Year First Therms (MM)	First Year Net Site CO2 (mm)	Lifecycle Net kWh	Lifecycle Net Therms (MM)	Lifecycle Net Elec CO2 (mm)	Lifecycle Net Gas CO2 (mm)	Administration	Marketing/ Outreach	Direct Implementation Non-Incentive	Incentive/Rebate	2023 PA Spending Budget Request	2023 PA Pre-2020 Unexpended and Unspent Carryover Balance	2023 PA Revenue Requirement Request	First Year First kWh	First Year First kW	First Year First Therms (MM)	First Year Net Site CO2 (mm)	Lifecycle Net kWh	Lifecycle Net Therms (MM)	Lifecycle Net Elec CO2 (mm)	Lifecycle Net Gas CO2 (mm)
PGE_Flex_2001a		Pay for Performance - Comfortable Home Rebates	Yes	Local Third Party	Residential	Market Support		$ 6,272,961		$ -	$ 370,955	$ 150,000	$ 7,203,000	$ 7,590,000	$ 5,000,000		$ 20,900,000	7,560,000	1,250.0	247,422.0	780.00	82,663	20,907,818.45	7,598,108.00	8,632.00	9,258.00																	
PGE_Flex_2001a_Cmprhs		Pay for Performance - Comfortable Home Rebates	Yes	Local Third Party	Residential	Resource Acquisition					$ 370,955	$ 150,000	$ 7,203,000		$ 7,723,955																													
PGE_Flex_2002a		Pay for Performance - Home Inst	Yes	Local Third Party	Residential	Resource Acquisition		603,951	$ 603,951	$ -	$ 603,951	$ 52,102	$ 338,681	$ 1,195,116	$ 1,258,500		$ 2,958,500	1,507,817.75	195.50	72,173.25	338.79	632.22	1,507,817.75	72,173.25	338.79	632.22	$ 54,041	$ 338,681	$ 1,195,116	$ -	$ 1,258,500		$ 2,958,500	1,507,817.75	195.50	72,173.25	338.66	632.22	1,507,817.75	72,173.25	338.66	632.22
PGE_Flex_2002a_Cmprhs		Pay for Performance - Home Inst	Yes	Local Third Party	Residential	Resource Acquisition					$ 603,951	$ 52,102	$ 338,681	$ 1,195,116	$ 2,189,850												$ 54,041	$ 338,681	$ 1,195,116	$ -	$ 1,258,500														
PGE_Flex_2003a		Pay for Performance - Home Energy Rewards	Yes	Local Third Party	Residential	Resource Acquisition		1,618,775	$ 1,618,775	$ -	$ 1,618,775	$ 107,000	$ 217,000	$ 271,000	$ 1,188,275		$ 1,588,275	1,257,140.00		1,020.00	386.00	5.07	16,545,416.75	51,188.00	12,788.00	65.00	$ 63,000	$ 217,000	$ 271,000	$ -	$ 1,188,275		$ 1,588,275	1,257,700.42		1,020.00	386.00	5.07	16,545,416.75	51,188.00	12,788.00	65.00
PGE_Flex_2003a_Cmprhs		Pay for Performance - Home Energy Rewards	Yes	Local Third Party	Residential	Resource Acquisition					$ 1,618,775	$ 107,000	$ 217,000	$ 271,000	$ 1,588,275												$ 63,000	$ 217,000	$ 271,000	$ -	$ 1,588,275														
PGE_Flex_2004a	PGE_Flex_2004a	Pay for Performance - Home Energy Upgrades	Yes	Local Third Party	Residential	Market Support		1,687,224	$ 1,687,224	$ -	$ 1,687,224	$ 300,500	$ 121,001	$ 195,921	$ 666,896		$ 666,896										$ 120,000	$ 121,728	$ 260,167	$ -	$ 512,909		$ 512,909												
PGE_Flex_2004a_Cmprhs		Pay for Performance - Home Energy Upgrades	Yes	Local Third Party	Residential	Resource Acquisition					$ 300,500				$ 666,896																													
PGE_Flex_2005a		Residential Energy Advisor - Home Energy Checkups	Yes	Local Third Party	Residential	Resource Acquisition		2,294,857	$ 2,294,857	$ -	$ 2,294,857	$ 1,253,400	$ -	$ -	$ 1,253,400		$ 1,253,400										$ 1,253,400	$ -	$ -	$ -	$ 1,253,400		$ 1,253,400	14,161,314.00		208,490.00	4,691.35	1,655.47	16,141,314.00	208,490.00	2,690.93	1,655.47
PGE_Flex_2005a_Cmprhs		Residential Energy Advisor - Home Energy Checkups	Yes	Local Third Party	Residential	Resource Acquisition					$ 2,294,857	$ 1,253,400	$ 41,457	$ 254,000	$ 1,295,857												$ 219,000	$ 217,857	$ 252,000	$ -	$ 1,295,857														
PGE_Flex_2006a		Residential Energy Advisor Marketplace	Yes	Local Third Party	Residential	Market Support		1,889,355	$ 1,889,355	$ -	$ 1,889,355	$ 470,032	$ 9,816	$ 24,000	$ 501,848		$ 501,848																												
PGE_Flex_2006a_Cmprhs		Residential Energy Advisor Home Energy Reports	Yes	Local Third Party	Residential	N/A		8,414,444	$ 8,414,444	$ -	$ 8,414,444	$ 9,914,750			$ 9,914,750																													
PGE_Flex_2008		Continuous Energy Feedback Program	Yes	Local Third Party	Residential	Market Support		12,294,000							$ 14,135,101		$ 14,135,101										$ 400,000				$ 14,135,101		$ 14,897,000	354,000,000.00	65,000.00	7,500,000.00	58,000.00	82,833.00	360,000,000.00	7,500,000.00	58,000.00	82,833.00
PGE_Flex_2014 Cmprhs		Continuous Energy Feedback Program	Yes	Local Third Party	Residential	Resource Acquisition					$ 400,000	$ 1,020,401	$ 914,101	$ 1,617,001	$ 3,951,501		$ 3,951,501										$ 1,761,000	$ 800,000	$ 1,087,501	$ -	$ 3,951,501		$ 3,951,501												
PGE_Flex_2009a		New Workplace Placemaker	Yes	Local Third Party	Residential	Market Support					$ 1,761,000	$ 350,000	$ 367,000	$ 650,000	$ 1,259,000		$ 1,259,000										$ 399,000	$ 350,000	$ 510,000	$ -	$ 1,259,000		$ 1,259,000												
PGE_Flex_2011		Multifamily Energy Savings Program	Yes	Local Third Party	Residential	Resource Acquisition		3,280,000			$ 3,280,000	$ 350,000	$ 150,000	$ 215,000	$ 3,795,000	$ 1,707,000	$ 5,502,000	1,280,970.00	312.00	158,994.00	397.00	1,169.97	30,549,260.00	159,000.00	3,020,410.00	3,529.00	$ 350,000	$ 150,000	$ 215,000	$ -	$ 3,795,000	$ 1,707,000	$ 5,502,000	1,318,000.00	317.00	158,915.00	397.00	1,169.97	30,480,000.00	3,997,000.00	9,870.74	24,856.65
PGE_Flex_2012_Cmprhs		Multifamily Energy Savings Program	Yes	Local Third Party	Residential	Resource Acquisition					$ 350,000	$ 1,122	$ 114,316	$ -	$ 465,438												$ 409,104	$ 7,382	$ 173,001	$ -	$ 1,044,731		$ 1,044,731												
PGE_Flex_2015a		Residential Market Support Placemaker	Yes	Local Third Party	Residential	Equity					$ 465,438	$ 465,000			$ 930,438												$ 350,000	$ 450,000	$ 200,000	$ -	$ 1,000,000		$ 1,000,000												
PGE_Flex_Equity_Cmprhs		Residential Market Support Placemaker	Yes	Local Third Party	Residential	Equity					$ 930,438				$ 930,438												$ 350,000		$ 647,662	$ -	$ 997,662		$ 997,662												
PGE0100A		Residential New Construction	Yes	Third Party	Residential	Market Support		3,963,000		$ 1,013,953	$ 963,000	$ -	$ 218,328	$ 1,811,561	$ 2,029,889		$ 2,029,889	62,165.00	11.00	12,512.70	39.00	350.00	1,118,748.27	635,749.75	584.00	3,017.00	$ -	$ -	$ -	$ -	$ -		$ -												
PGE0100Y		California New Homes Multifamily	Yes	Third Party	Residential	Market Support		1,122,000		$ 1,013,953	$ 963,000	$ -	$ 98,116	$ 1,148,953	$ 1,750,561		$ 1,750,561	151,203.59	24.00	16,149.70	84.00	534.00	12,552,745.00	979,228.57	389.00	5,750.00	$ -	$ -	$ -	$ -	$ -		$ -												
PGE0100Z		Residential Energy Fitness program	Yes	Third Party	Residential	N/A					$ 1,750	$ -	$ -	$ -	$ 1,750		$ -										$ -	$ -	$ -	$ -	$ -		$ -												
PGE1001		Residential Energy Efficiency	Yes	Third Party	Residential	Market Support		954,000		$ 1,173,796	$ 21,000	$ 63,007	$ 847,000	$ 931,000	$ 858,015		$ 858,015	509,150.00	153.0	47,480.00	175.00	200.00	5,094,325.12	419,870.00	2,772.00	5,655.00	$ -	$ -	$ -	$ -	$ -		$ -												
PGE1004A		Multifamily Energy Efficiency	Yes	Third Party	Residential	N/A					$ 1,173,796	$ 300,000																																
PGE1004B		Enhanced Time Delay Relay	Yes	Third Party	Residential	N/A					$ 18,790																																	
PGE1005B		Direct Install for Manufactured and Mobile Homes	Yes	Third Party	Residential	N/A					$ 1,015,000																																	
PGE_Flex_NC_Nonfloor_Res_ethanol		New Construction Non-Residential Res Electric	Yes	Third Party	Residential	Market Support						$ 1,000	$ 9,700	$ 19,000	$ 27,000	$ 42,500		42,500	1,007.00	9.00	4,999.00	0.00	29.00	15,428.62	10,890.00	0.00	380.00	$ 10,710	$ 29,790	$ 133,077	$ -	$ 173,577		$ 173,577											
PGE_NC_NC_Nonfloor_Res_electric_Flex		New Construction Non-Residential Res Electric - Flex Costs	Yes	Third Party	Residential	Market Support						$ 9,500	$ 50	$ 8,050	$ 17,600	$ 35,200		35,200										$ 10,200	$ 50	$ 24,900	$ -	$ 35,150		$ 35,150												
PGE_NC_NC_Nonfloor_Res_ethanol		New Construction Non-Residential Res Ethanol	Yes	Third Party	Residential	Market Support						$ 1,000	$ 10,000	$ 19,000	$ 30,000	$ 60,000		60,000	1,007,000.00	9.00	4,999.00	0.00	29.00	15,428.62	10,890.00	0.00	380.00	$ 10,710	$ 29,790	$ 133,077	$ -	$ 173,577		$ 173,577											
PGE_NC_NC_Nonfloor_Res_electric_Flex		New Construction Non-Residential Res Electric - Flex Costs	Yes	Third Party	Residential	Market Support						$ 9,500	$ 50	$ 8,050	$ 17,600	$ 35,200		35,200										$ 10,200	$ 50	$ 24,900	$ -	$ 35,150		$ 35,150											
PGE_NC_NC_Nonfloor_Res_ethanol_Flex		New Construction Non-Residential Res Ethanol Fuel - Flex Costs	Yes	Third Party	Residential	Market Support						$ 1,000	$ 10,000	$ 19,000	$ 30,000	$ 60,000		60,000										$ 10,200	$ 50	$ 24,900	$ -	$ 35,150		$ 35,150											
PGE_NC_NC_Nonfloor_Res_ethanol_Cmprhs		New Construction Non-Residential Res Ethanol	Yes	Local Third Party	Residential	Resource Acquisition					$ 60,000	$ 10,000	$ 19,000	$ 30,000	$ 119,000												$ 10,200	$ 50	$ 24,900	$ -	$ 35,150														
PGE_Flex_2013		Residential Market Support Placemaker	Yes	Local Third Party	Residential	Equity		752,000		$ 649,645	$ 51,500	$ 70,000	$ 609,472	$ 804,000	$ 1,186,972		$ 1,186,972	2,094,750.00	299.00	102,540.00	563.00	590.75	31,025,250.00	1,537,194.50	9,002.00	8,870.00	$ 51,500	$ 70,000	$ 609,472	$ -	$ 730,972		$ 730,972	2,092,000.00	301.00	102,490.00	563.00	590.00	31,000,000.00	1,537,000.00	10,108.19	12,878.00
PGE_Flex_2016		Residential Home Construction	Yes	Local Third Party	Residential	Market Support					$ 649,645	$ 51,500	$ 70,000	$ 609,472	$ 1,380,617												$ 51,500	$ 70,000	$ 609,472	$ -	$ 730,972														
PGE_Flex_2016_Cmprhs		Residential Home Construction	Yes	Local Third Party	Residential	Resource Acquisition					$ 51,500	$ 70,000	$ 609,472	$ 804,000	$ 1,534,972												$ 51,500	$ 70,000	$ 609,472	$ -	$ 730,972														
PGE_Flex_2017		SelfGen Program	Yes	Local Third Party	Commercial	Market Support		14,391,000		$ 11,753	$ 151,500	$ 18,002	$ 379,115	$ 1,119,000	$ 1,717,615		$ 1,717,615	11,554,094.00	1,087.00	287,962.00	2,892.00	1,684.58	19,459,447.74	7,197,288.25	20,686.00	13,639.70	$ 150,000	$ 18,002	$ 379,115	$ -	$ 547,117		$ 547,117	11,553,993.99	1,014.00	571,495.00	2,996.00	2,196.51	56,746,622.73	5,958,558.90	27,527.18	17,898.02
PGE_Flex_2017_Cmprhs		SelfGen Program	Yes	Local Third Party	Commercial	Resource Acquisition					$ 151,500	$ 18,002	$ 379,115	$ 1,119,000	$ 1,717,615												$ 150,000	$ 18,002	$ 379,115	$ -	$ 547,117														
PGE_Flex_2018		Advanced Energy Program for Ag Food Processing	Yes	Local Third Party	Commercial	Resource Acquisition		2,413,000		$ 11,753	$ 151,000	$ 19,000	$ 1,500,000	$ 700,000	$ 2,351,000		$ 2,351,000	1,554,000.00	1,114.0	87,000.00	1,570.00	550.00	16,687,450.00	1,050,000.00	15,650.00	5,000.00	$ 150,000	$ 19,000	$ 1,500,000	$ -	$ 1,669,000		$ 2,351,000	1,554,000.00	1,114.0	87,000.00	1,570.00	550.00	16,687,450.00	1,050,000.00	15,650.00	5,000.00
PGE_Flex_2019		Advanced Energy Program for Ag Food Processing	Yes	Local Third Party	Commercial	Resource Acquisition					$ 151,000	$ 19,000	$ 1,500,000	$ 700,000	$ 2,370,000												$ 150,000	$ 19,000	$ 1,500,000	$ -	$ 1,669,000														
PGE_Flex_2020		Healthcare Energy Fitness Initiative	Yes	Local Third Party	Commercial	Market Support					$ 1,000,000	$ 10,000	$ 190,000	$ 797,000	$ 1,997,000		$ 1,997,000	2,579,100.00	282.00	132,259.00	382.70	830.22	20,798,499.21	1,810,209.07	9,540.00	10,030.00	$ 1,000,000	$ 190,000	$ 797,000	$ -	$ 1,987,000		$ 1,987,000	2,577,000.00	283.00	132,159.00	382.70	1,032.00	20,598,298.41	1,814,333.41	7,679.76	10,965.69
PGE_Flex_2021_Cmprhs		Healthcare Energy Fitness Initiative	Yes	Local Third Party	Commercial	Resource Acquisition					$ 190,000	$ 797,000	$ 1,000,000	$ -	$ 2,987,000												$ 190,000	$ 797,000	$ 1,000,000	$ -	$ 2,987,000														
PGE_Flex_Equity		New Small Office Business Placemaker	Yes	Local Third Party	Commercial	Equity					$ 2,987,000	$ 250,000	$ 250,000	$ 1,200,000	$ 4,687,000		$ 4,687,000										$ 250,000	$ 250,000	$ 1,200,000	$ -	$ 1,700,000		$ 1,700,000												
PGE_Flex_Equity_Cmprhs		New Small Office Business Placemaker	Yes	Local Third Party	Commercial	Resource Acquisition					$ 250,000	$ 250,000	$ 1,200,000	$ -	$ 1,700,000												$ 250,000	$ 250,000	$ 1,200,000	$ -	$ 1,700,000														
PGE1001C		Commercial Calculated Incentives	Yes	Local Third Party	Commercial	Resource Acquisition		6,567,982		$ 3,161,290	$ 382,000	$ 1,259,102	$ 2,314,618	$ 349,751	$ 4,184,751		$ 4,184,751	3,804,092.26	183.00	61,017.00	704.21	242.76	10,674,130.90	129,966.20	2,725.12	735.00	$ 384,000	$ 1,259,102	$ 2,340,204	$ 349,751	$ 4,271,866		$ 4,271,866	3,811,792.16	183.00	61,017.00	341.56	242.76	5,240,000.96	129,966.20	1,532.92	710.59
PGE1002C		Commercial Deemed Incentives	Yes	Local Third Party	Commercial	Resource Acquisition		6,146,000		$ 3,161,290	$ 382,000	$ 188,000	$ 1,855,000	$ 760,000	$ 3,185,000		$ 3,185,000	273,000.00	30.00	19,462.00	30.00	242.00	2,597,000.00	197,000.00	664.00	1,710.00	$ 382,000	$ 188,000	$ 2,615,000	$ 760,000	$ 3,945,000		$ 3,945,000	273,000.00	30.00	19,462.00	30.00	242.00	2,597,000.00	197,000.00	664.00	1,710.00
PGE0004A		Commercial Energy Advisor	Yes	Local Third Party	Commercial	Market Support		1,367,000							$ 616,000		$ 616,000																											
PGE0004A Cmprhs		Commercial Energy Advisor	Yes	Local Third Party	Commercial	Resource Acquisition					$ 616,000	$ 421,000	$ 195,000	$ -	$ 1,232,000												$ 616,000	$ 421,000	$ 195,000	$ -	$ 1,232,000														
PGE0100Y		Energy to Storage (NEW)	Yes	Third Party	Commercial	Market Support		1,367,000			$ 616,000	$ 317,000	$ 348,000	$ 375,000	$ 1,656,000		$ 1,656,000	800,000.00	60.00	9,000.00	160.00	38.00	5,300,897.00	46,000.00	1,600.00	375.00	$ 317,000	$ 348,000	$ 375,000	$ -	$ 1,040,000		$ 1,040,000	800,000.00	60.00	9,000.00	160.00	38.00	5,300,897.00	46,000.00	1,600.00	375.00
PGE0100A		Commercial HVAC	Yes	Third Party	Commercial	N/A					$ 317,000	$ -	$ -	$ -	$ 317,000												$ 317,000	$ -	$ -	$ -	$ 317,000														
PGE0101A		Commercial HVAC	Yes	Third Party	Commercial	N/A					$ 317,000	$ -	$ -	$ -	$ 317,000												$ 317,000	$ -	$ -	$ -	$ 317,000														
PGE0102A		Energy Smart Grocer	Yes	Third Party	Commercial	N/A					$ 317,000	$ -	$ -	$ -	$ 317,000												$ 317,000	$ -	$ -	$ -	$ 317,000														
PGE0103A		Deemed Energy Efficiency	Yes	Third Party	Commercial	N/A					$ 317,000	$ -	$ -	$ -	$ 317,000												$ 317,000	$ -	$ -	$ -	$ 317,000														
PGE0104A		Deemed Energy Efficiency Program	Yes	Third Party	Commercial	N/A					$ 317,000	$ -	$ -	$ -	$ 317,000												$ 317,000	$ -	$ -	$ -	$ 317,000														
PGE1003B		Food Safety Program	Yes	Third Party	Commercial	N/A		9,004,000		$ 153,000	$ 153,000	$ -	$ -	$ -	$ 153,000												$ -	$ -	$ -	$ -	$ -														
PGE_NC_NC_Nonfloor_Com_ethanol		New Construction Non-Residential Com Electric	Yes	Third Party	Commercial	Market Support		12,000		$ 1,000	$ 1,000	$ 4,000	$ 19,000	$ 19,000	$ 43,000		$ 43,000	10,000.00	0.00	3,027.00	0.00	28.00	128,637.62	10,500.00	0.00	190.00	$ 11,000	$ 19,000	$ 213,000	$ -	$ 243,000		$ 243,000	10,000.00	0.00	3,027.00	0.00	28.00	128,637.62	10,500.00	0.00	190.00
PGE_NC_NC_Nonfloor_Com_electric_Flex		New Construction Non-Residential Com Electric - Flex Costs	Yes	Third Party	Commercial	Market Support		294,750		$ 1,000	$ 10,000	$ 2,000	$ 124,000		$ 137,000		$ 137,000										$ 11,000	$ 12,000	$ 170,000	$ -	$ 193,000		$ 193,000												
PGE_NC_NC_Nonfloor_Com_ethanol		New Construction Non-Residential Com Ethanol Fuel	Yes	Third Party	Commercial	Market Support					$ 12,000	$ 8,000	$ 43,000	$ 38,000	$ 101,000		$ 101,000	159,550.00	58.00	3,030.00	39.00	38.00	3,033,188.79	48,930.00	813.00	199.00	$ 11,000	$ 43,000	$ 38,000	$ -	$ 92,000		$ 1,177,000	3,133,531.00	759.00	30,480.00	480.70	597.00	39,840,038.00	917,931.12	8,218.99	7,858.65
PGE_NC_NC_Nonfloor_Com_ethanol_Flex		New Construction Non-Residential Com Ethanol Fuel - Flex Costs	Yes	Third Party	Commercial	Market Support					$ 92,000	$ 1,000	$ 2,000	$ 152,000	$ 155,000		$ 155,000										$ 101,000	$ 1,000	$ 258,000	$ -	$ 374,000		$ 374,000												
PGE_Flex_Ag		Food Service PGE	Yes	Local Third Party	Agricultural	Resource Acquisition		1,857,000		$ 939,000	$ 1,857,000	$ 1,857,000	$ 1,857,000	$ 1,857,000	$ 7,428,000		$ 7,428,000	2,192,000.00	202.00	600,900.00	560.00	4,008.00	26,007,690.40	4,134,900.77	9,004.70	27,750.40	$ 1,857,000	$ 1,857,000	$ 2,557,000	$ 1,857,000	$ 8,126,000		$ 8,126,000	2,192,000.00	202.00	600,900.00	560.00	4,008.00	26,007,690.40	4,134,900.77	9,004.70	27,750.40
PGE_Flex_Ag_Cmprhs		Food Service PGE - Ph Costs	Yes	Local Third Party	Agricultural	Resource Acquisition		551,000		$ 551,000	$ 551,000	$ 551,000	$ 551,000	$ 551,000	$ 2,204,000		$ 2,204,000	1,000,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	$ 551,000	$ 551,000	$ 551,000	$ -	$ 1,653,000		$ 1,653,000	1,000,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PGE_Flex_NC_Ag		Upstream HVAC (Comm and Res)	Yes	Local Third Party	Agricultural	Market Support		6,751,000		$ 5,572,000	$ 360,000	$ 100,000	$ 1,663,000	$ 3,509,000	$ 5,632,000		$ 5,632,000	9,001,000.76	5,054.00	301,009.70	1,254.00	1,287.70	15,101,140.55	2,972,215.95	39,041.50	40,756.50	$ 572,000	$ 100,000	$ 1,077,982	$ 4,210,000	$ 6,958,982		$ 6,958,982	9,002,000.52	5,189.00	396,389.55	2,143.00	2,216.30	141,237,875.71	7,048,850.45	42,008.54	41,936.64
PGE_NC_NC_Ag_Ph		Upstream HVAC (Comm and Res) - Ph Costs	Yes	Local Third Party	Agricultural	Resource Acquisition		501,000		$ 1,000	$ 501,000	$ 501,000	$ 501,000	$ 501,000	$ 2,004,000		$ 2,004,000	500,000.00									$ 501,000	$ 501,000	$ 501,000	$ -	$ 1,503,000		$ 1,503,000	500,000.00									
PGE_SW_SWGH		Maximum Comfort Water Heating	Yes	Third Party	Commercial	Resource Acquisition		1,968,000		$ 856,958	$ 828,000	$ 319,000	$ 1,294,000	$ 4,958,000	$ 7,051,000		$ 7,051,000	1,952,996.00	314.0	215,100.00	254.00	2,288.27	12,140,140.55	12,584,849.00	2,688.00	73,987.00	$ 828,000	$ 319,000	$ 1,014,996	$ 4,958,000	$ 7,119,996		$ 7,119,996	1,953,000.00	315.00	215,000.00	255.00	2,288.00	12,750,000.00	12,592,000.00	2,692.00	73,900.00
PGE_SW_SWGH_Ph		Maximum Comfort Water Heating - Ph Costs	Yes	Third Party	Commercial	Resource Acquisition		284,000		$ 1,000	$ 284,000	$ 284,000	$ 284,000	$ 284,000	$ 1,136,000		$ 1,136,000	284,000.00									$ 284,000	$ 284,000	$ 284,000	$ -	$ 852,000		$ 852,000	284,000.00									
PGE_SW_LG		Lighting (Upstream)	Yes	Third Party	Commercial	Market Support		1,924,000		$ 553,000	$ 800,000	$ 300,000	$ 1,300,000	$ 2,300,000	$ 4,200,000		$ 4,200,000	10,140,000.00	1,011.00	207,000.00	2,040.00	2580.00	116,130,750.00	2,038,000.00	32,028.00	19,500.00	$ 553,000	$ 300,000	$ 1,073,000	$ 2,300,000	$ 4,226,000		$ 4,226,000	10,153,000.00	1,012.00	207,000.00	2,041.00	2,580.00	116,697,500.00	2,038,000.00	32,028.00	19,500.00
PGE_SW_LG_Ph		Lighting (Upstream) - Ph Costs	Yes	Third Party	Commercial	Resource Acquisition		581,000		$ 7,000	$ 251,000	$ 3,000	$ 3,000	$ 3,000	$ 260,000		$ 260,000	581,000									$ 251,000	$ 3,000	$ 262,000	$ -	$ 515,000		$ 515,000	581,000.00									
PGE_Ag_DSI		Agricultural Energy Savings Action Plan	Yes	Local Third Party	Agricultural	Resource Acquisition		5,767,000		$ 1,717,000	$ 1,472,000	$ 1,472,000	$ 1,472,000	$ 4,787,000	$ 8,731,000		$ 8,731,000	11,375,000.00	2,214.00	46,815.17	1,882.31	587.58	130,588,430.82	387,199.20	70,166.70	5,255.60	$ 1,472,000	$ 1,472,000	$ 1,472,000	$ 4,787,000	$ 9,203,000		$ 9,203,000	11,375,000.00	2,214.00	46,815.17	1,882.31	587.58	130,588,430.82	387,199.20	70,166.70	5,255.60
PGE_Ag_DSI_Cmprhs		Agricultural Energy Savings Action Plan	Yes	Local Third Party	Agricultural	Resource Acquisition					$ 1,472,000	$ 1,472,000	$ 1,472,000	$ 4,787,000	$ 9,203,000		$ 9,203,000	2,640,000.00									$ 1,472,000	$ 1,472,000	$ 1,472,000	$ 4,787,000	$ 9,203,000		$ 9,203,000	2,640,000.00									
PGE0200A		Agricultural Calculated Incentives	Yes	Local Third Party	Agricultural	Resource Acquisition		5,352,000		$ 2,013,271	$ 502,750	$ 69,750	$ 867,279	$ 712,000	$ 2,082,029		$ 2,082,029	1,270,014.76	285.75	68,040.00	304.20	398.05	7,604,797.50	932,500.00	2,197.00	5,072.00	$ 502,750	$ 69,750	$ 867,279	$ 712,000	$ 2,152,029		$ 2,152,029	1,270,014.76	285.75	68,040.00	304.20	398.05	7,604,797.50	932,500.00	2,197.00	5,072.00
PGE0200B		Agricultural Deemed Incentives	Yes	Local Third Party	Agricultural	Resource Acquisition		2,000,000		663,000	$ 663,000	$ 663,000	$ 663,000	$ 663,000	$ 2,652,000		$ 2,652,000	554,000.00	154.00	0.00	0.00	0.00	5,188,968.00	0.00	0.00	0.00	$ 663,000	$ 663,000	$ 663,000	$ -	$ 1,989,000		$ 1,989,000	554,000.00	154.00	0.00	0.00	0.00	5,188,968.00	0.00	0.00	0.00
PGE0200C		Agricultural Energy Advisor	Yes	Local Third Party	Agricultural	Resource Acquisition		278,000		$ 127,143	$ -	$ -	$ 102,857	$ -	$ 102,857		$ 102,857										$ -	$ -	$ 102,857	$ -	$ 102,857		$ 102,857										
PGE0201A_Cmprhs		Agricultural Energy Advisor	Yes	Local Third Party	Agricultural	Resource Acquisition					$ 102,857	$ 18,143	$ 43,000	$ -	$ 164,000		$ 164,000										$ 102,857	$ 18,143	$ 43,000	$ -	$ 164,000		$ 164,000										
PGE_SW_NC_Nonfloor_Ag_ethanol	

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023

Table 4 – Budget, Spent, Unspent, Carryover Details

New/Existing Program #	Discontinued Program #	Program Name	Target Exempt	Program Type	Business Sector	Portfolio Segment 7	Pre-2020 Unspent/Uncommitted EE Funds 6	2021 Authorized Budget	2021 Forecasted Unspent/ Uncommitted Funds as of 7/31/2021	2021 Budget Spent as of 07/31/2021
PGE21053		Compliance Improvement	Yes	Core PA	Codes & Standards	Codes & Standards		5,533,011		$ 3,316,528
PGE21054		Reach Codes	Yes	Core PA	Codes & Standards	Codes & Standards		2,046,633		$ 1,129,935
PGE21055		Planning and Coordination	Yes	Core PA	Codes & Standards	Codes & Standards		741,468		$ 958,496
PGE21056		Code Readiness	Yes	Core PA	Codes & Standards	Codes & Standards		6,960,989		$ 4,478,498
PGE_SW_CSA_Appl		State Appliance Standards Advocacy	No	SW Third Party	Codes & Standards	Codes & Standards		1,693,770		$ 662,405
PGE_SW_CSA_Appl_PA		State Appliance Standards Advocacy - PA Costs	No	Core PA	Codes & Standards	Codes & Standards		1,874,473		$ 1,052,057
PGE_SW_CSA_Bldg		State Building Codes Advocacy	No	SW Third Party	Codes & Standards	Codes & Standards		2,735,280		$ 1,296,647
PGE_SW_CSA_Bldg_PA		State Building Codes Advocacy - PA Costs	No	Core PA	Codes & Standards	Codes & Standards		1,507,403		$ 1,089,047
PGE_SW_CSA_Natl		National Codes & Standards Advocacy	No	SW Third Party	Codes & Standards	Codes & Standards		1,569,630		$ 1,484,229
PGE_SW_CSA_Natl_PA		National Codes & Standards Advocacy - PA Costs	No	Core PA	Codes & Standards	Codes & Standards		627,822		$ 120,533
	PGE21061	Technology Development Support	Yes	Core PA	Emerging Tech	N/A		-		$ 4,683
PGE21062		Technology Assessments	Yes	Core PA	Emerging Tech	Market Support		1,462,258		$ 477,796
PGE21063		Technology Introduction Support	Yes	Core PA	Emerging Tech	Market Support		3,327,076		$ 980,843
PGE_SW_ETP_Elec		Emerging Technologies Program, Electric	Yes	SW Third Party	Emerging Tech	Market Support		-		$ -
PGE_SW_ETP_Elec_PA		Emerging Technologies Program, Electric - PA Costs	Yes	Core PA	Emerging Tech	Market Support		-		$ -
PGE_SW_ETP_Gas		Emerging Technologies Program, Gas	Yes	SW Third Party	Emerging Tech	Market Support		882,000		$ -
PGE_SW_ETP_Gas_PA		Emerging Technologies Program, Gas - PA Costs	Yes	Core PA	Emerging Tech	Market Support		25,675		$ -
PGE21071		Integrated Energy Education and Training	Yes	Core PA	WE&T	Market Support		7,258,906		$ 3,604,934
	PGE21072	Connections	Yes	Core PA	WE&T	N/A		620,112		$ 302,149
	PGE21073	Strategic Planning	Yes	Core PA	WE&T	N/A		-		$ 1,994
PGE_SW_WET_CC		WET Career Connections	Yes	SW Third Party	WE&T	Market Support		266,000		$ 21,500
PGE_SW_WET_CC_PA		WET Career Connections - PA Costs	Yes	Core PA	WE&T	Market Support		107,343		$ 4,005
PGE_SW_WET_Work		WET Career and Workforce Readiness	Yes	SW Third Party	WE&T	Equity		561,943		$ 12,175
PGE_SW_WET_Work_PA		WET Career and Workforce Readiness - PA Costs	Yes	Core PA	WE&T	Equity		141,724		$ 1,015
PGE_OtherPA_Admin		PG&E Admin Costs for RENs & CCAs	No	Core PA	Commercial	Resource Acquisition		-		$ -
		PA PROGRAM TOTAL					$ 12,319,884	$ 228,448,930	$ -	$ 95,840,771
		EM&V (PA & ED Portions) Total 5								
		EM&V - PA	[redacted]				$ 5,647,529	[redacted]		$ 1,709,106
		EM&V - ED	[redacted]				$ 15,969,821	[redacted]		$ (4,921,234)
		EM&V TOTAL	[redacted]				$ 21,617,350	[redacted]		$ (3,212,128)
		PA Program and EM&V Total					$ 33,937,234	$ 228,448,930	$ -	$ 92,628,642
		CEC AB 841 Program Budget--IOU PA only								
		Applicable Annual % of difference between funding limitation & 2020 EE ABAL budget 3	[redacted]							
		IOU 2020 and Beyond Uncommitted and Unspent Carryover Balance	[redacted]							
		CEC AB 841 Total	[redacted]							$ 51,233,170
		PA Spending Budget Request (PA Program and EM&V + CEC AB 841)					$ 33,937,234	$ 228,448,930	$ -	$ 143,861,812
		Financing Pilot Programs								
PGE21093		New Financing Offerings			Finance	Resource Acquisition				$ 260,806
		Financing Pilot Programs Total					$ -	$ -	$ -	$ 260,806
		ME&O & ESA								
		ME&O 1						6,859,212		$ 4,435,890
		ESA 2						216,769,326		$ 86,775,250

2022

Program Name	Administrative	Marketing/ Outreach	Direct Implementation Non-Incentive	Incentive/ Rebate	2022 PA Spending Budget Request	2022 PA Pre-2020 Uncommitted and Unspent Carryover Balance	2022 PA Revenue Requirement Request	First Year Net KWH	First Year Net KW	First Year Net Therms (MM)	First Year Net Elec CO2 (ton)	First Year Net Gas CO2 (ton)	Lifecycle Net KWH	Lifecycle Net Therms (MM)	Lifecycle Net Elec CO2 (Ton)	Lifecycle Net Gas CO2 (Ton)
Compliance Improvement	$ 485,681	$ -	$ 4,825,084	$ -	$ 5,310,765		$ 5,310,765	-	-	-	-	-	-	-	-	-
Reach Codes	$ 198,087	$ -	$ 1,870,083	$ -	$ 2,068,170		$ 2,068,170	-	-	-	-	-	-	-	-	-
Planning and Coordination	$ 79,527	$ -	$ 652,720	$ -	$ 732,247		$ 732,247	-	-	-	-	-	-	-	-	-
Code Readiness	$ 723,228	$ -	$ 7,296,522	$ -	$ 8,019,750		$ 8,019,750	-	-	-	-	-	-	-	-	-
State Appliance Standards Advocacy	$ -	$ -	$ 833,303	$ -	$ 833,303		$ 833,303	592,171,019.65	78,122.34	7,116,093.38	161,399.54	41,629.15	8,451,506,484.40	77,871,007.79	2,840,741.08	455,545.40
State Appliance Standards Advocacy - PA Costs	$ 135,122	$ -	$ 405,931	$ -	$ 541,053		$ 541,053	-	-	-	-	-	-	-	-	-
State Building Codes Advocacy	$ -	$ -	$ 2,735,280	$ -	$ 2,735,280		$ 2,735,280	381,568,032.83	92,195.61	10,751,687.92	96,010.82	62,897.37	6,100,027,126.54	191,934,596.67	1,856,473.53	1,122,817.39
State Building Codes Advocacy - PA Costs	$ 399,911	$ -	$ 1,256,912	$ -	$ 1,656,823		$ 1,656,823	-	-	-	-	-	-	-	-	-
National Codes & Standards Advocacy	$ -	$ -	$ 2,430,097	$ -	$ 2,430,097		$ 2,430,097	229,026,251.23	41,854.64	1,331,130.34	58,239.98	7,787.11	2,575,289,459.28	20,286,653.47	775,478.46	118,676.92
National Codes & Standards Advocacy - PA Costs	$ 282,585	$ -	$ 314,742	$ -	$ 597,327		$ 597,327	-	-	-	-	-	-	-	-	-
Technology Development Support	$ -	$ -	$ -	$ -	$ -		$ -	-	-	-	-	-	-	-	-	-
Technology Assessments	$ 172,344	$ -	$ 1,646,747	$ -	$ 1,819,090		$ 1,819,090	-	-	-	-	-	-	-	-	-
Technology Introduction Support	$ 108,322	$ -	$ 946,815	$ -	$ 1,055,137		$ 1,055,137	-	-	-	-	-	-	-	-	-
Emerging Technologies Program, Electric	$ 395,816	$ -	$ 6,201,123	$ -	$ 6,596,940		$ 6,596,940	-	-	-	-	-	-	-	-	-
Emerging Technologies Program, Electric - PA Costs	$ 214,463	$ 3,570	$ 128,363	$ -	$ 346,396		$ 346,396	-	-	-	-	-	-	-	-	-
Emerging Technologies Program, Gas	$ 26,611	$ 8,429	$ 1,000,171	$ -	$ 1,035,212		$ 1,035,212	-	-	-	-	-	-	-	-	-
Emerging Technologies Program, Gas - PA Costs	$ 214,075	$ 3,570	$ 124,188	$ -	$ 341,833		$ 341,833	-	-	-	-	-	-	-	-	-
Integrated Energy Education and Training	$ 723,973	$ 194,375	$ 7,183,040	$ -	$ 8,101,388		$ 8,101,388	-	-	-	-	-	-	-	-	-
Connections	$ -	$ -	$ -	$ -	$ -		$ -	-	-	-	-	-	-	-	-	-
Strategic Planning	$ -	$ -	$ -	$ -	$ -		$ -	-	-	-	-	-	-	-	-	-
WET Career Connections	$ 4,560	$ 28,500	$ 422,940	$ -	$ 456,000		$ 456,000	-	-	-	-	-	-	-	-	-
WET Career Connections - PA Costs	$ 69,668	$ 7,141	$ 90,833	$ -	$ 167,642		$ 167,642	-	-	-	-	-	-	-	-	-
WET Career and Workforce Readiness	$ 71,268	$ 51,249	$ 678,244	$ -	$ 800,761		$ 800,761	-	-	-	-	-	-	-	-	-
WET Career and Workforce Readiness - PA Costs	$ 103,578	$ 1,428	$ 99,153	$ -	$ 204,159		$ 204,159	-	-	-	-	-	-	-	-	-
PG&E Admin Costs for RENs & CCAs	$ 12,879	$ -	$ 138,636	$ -	$ 151,514		$ 151,514	-	-	-	-	-	-	-	-	-
					$ -		$ -									
					$ -		$ -									
PA PROGRAM TOTAL	$ 31,642,559	$ 10,530,375	$ 121,770,674	$ 73,803,298	$ 237,746,906	$ -	$ 237,746,906	1,638,140,726	284,083	37,706,478	429,649	221,986	19,681,248,574	422,690,216	6,209,727	2,491,547
EM&V - PA	[redacted]				$ 2,999,183		$ 2,999,183	[redacted]								
EM&V - ED	[redacted]				$ 6,906,938		$ 6,906,938	[redacted]								
EM&V TOTAL	[redacted]				$ 9,906,121	$ -	$ 9,906,121	[redacted]								
PA Program and EM&V Total	$ 31,642,559	$ 10,530,375	$ 121,770,674	$ 73,803,298	$ 247,653,027	$ -	$ 247,653,027	1,638,140,726.13	284,083.11	37,706,478.43	429,649.12	221,985.60	19,681,248,573.92	422,690,215.85	6,209,726.87	2,491,547.44
Applicable Annual % of difference between funding limitation & 2020 EE ABAL budget 3	[redacted]				$ 80,908,048	$ -	$ 80,908,048	[redacted]								
IOU 2020 and Beyond Uncommitted and Unspent Carryover Balance	[redacted]						$ -	[redacted]								
CEC AB 841 Total	[redacted]				$ 80,908,048	$ -	$ 80,908,048	[redacted]								
PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	$ 31,642,559	$ 10,530,375	$ 121,770,674	$ 73,803,298	$ 328,561,075	$ -	$ 328,561,075	1,638,140,726.13	284,083.11	37,706,478.43	429,649.12	221,985.60	19,681,248,573.92	422,690,215.85	6,209,726.87	2,491,547.44
New Financing Offerings					$ -		$ -									
					$ -		$ -									
					$ -		$ -									
					$ -		$ -									
					$ -		$ -									
					$ -		$ -									
Financing Pilot Programs Total	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-	-	-	-	-	-	-	-	-
ME&O 1		$ 3,242,387			$ 3,242,387		$ 3,242,387									
ESA 2	$ 152,758,877				$ 152,758,877		$ 152,758,877	15,100,000.00	2,900.00	630,000.00						
					$ -		$ -									

2023

Program Name	Administrative	Marketing/ Outreach	Direct Implementation Non-Incentive	Incentive/Rebate	2023 PA Spending Budget Request	2023 PA Pre-2020 Uncommitted and Unspent Carryover Balance	2023 PA Revenue Requirement Request	First Year Net KWH	First Year Net KW	First Year Net Therms (MM)	First Year Net Elec CO2 (ton)	First Year Net Gas CO2 (ton)	Lifecycle Net KWH	Lifecycle Net Therms (MM)	Lifecycle Net Elec CO2 (Ton)	Lifecycle Net Gas CO2 (Ton)
Compliance Improvement	$ 473,242	$ -	$ 4,824,364	$ -	$ 5,297,606		$ 5,297,606	-	-	-	-	-	-	-	-	-
Reach Codes	$ 195,412	$ -	$ 1,879,435	$ -	$ 2,074,846		$ 2,074,846	-	-	-	-	-	-	-	-	-
Planning and Coordination	$ 79,644	$ -	$ 652,392	$ -	$ 732,036		$ 732,036	-	-	-	-	-	-	-	-	-
Code Readiness	$ 622,878	$ -	$ 6,421,443	$ -	$ 7,044,322		$ 7,044,322	-	-	-	-	-	-	-	-	-
State Appliance Standards Advocacy	$ -	$ -	$ 833,303	$ -	$ 833,303		$ 833,303	489,264,194.91	66,875.30	7,093,866.61	138,556.66	41,499.12	6,934,294,347.26	78,640,432.78	2,375,983.49	460,046.53
State Appliance Standards Advocacy - PA Costs	$ 134,841	$ -	$ 409,387	$ -	$ 544,228		$ 544,228	-	-	-	-	-	-	-	-	-
State Building Codes Advocacy	$ -	$ -	$ 2,735,280	$ -	$ 2,735,280		$ 2,735,280	528,977,028.24	117,207.26	13,821,769.67	138,919.53	80,857.35	8,361,315,498.72	248,386,253.96	2,599,954.46	1,453,059.59
State Building Codes Advocacy - PA Costs	$ 465,862	$ -	$ 2,039,049	$ -	$ 2,504,911		$ 2,504,911	-	-	-	-	-	-	-	-	-
National Codes & Standards Advocacy	$ -	$ -	$ 2,430,097	$ -	$ 2,430,097		$ 2,430,097	250,641,195.32	64,376.61	1,530,841.61	66,382.54	8,955.42	3,021,747,805.45	25,562,786.02	935,773.97	149,542.30
National Codes & Standards Advocacy - PA Costs	$ 277,249	$ -	$ 318,954	$ -	$ 596,203		$ 596,203	-	-	-	-	-	-	-	-	-
Technology Development Support	$ -	$ -	$ -	$ -	$ -		$ -	-	-	-	-	-	-	-	-	-
Technology Assessments	$ -	$ -	$ -	$ -	$ -		$ -	-	-	-	-	-	-	-	-	-
Technology Introduction Support	$ -	$ -	$ -	$ -	$ -		$ -	-	-	-	-	-	-	-	-	-
Emerging Technologies Program, Electric	$ 503,207	$ -	$ 7,883,573	$ -	$ 8,386,780		$ 8,386,780	-	-	-	-	-	-	-	-	-
Emerging Technologies Program, Electric - PA Costs	$ 242,778	$ 3,696	$ 145,096	$ -	$ 391,569		$ 391,569	-	-	-	-	-	-	-	-	-
Emerging Technologies Program, Gas	$ 26,611	$ 8,429	$ 2,152,207	$ -	$ 2,187,247		$ 2,187,247	-	-	-	-	-	-	-	-	-
Emerging Technologies Program, Gas - PA Costs	$ 242,390	$ 3,696	$ 140,921	$ -	$ 387,006		$ 387,006	-	-	-	-	-	-	-	-	-
Integrated Energy Education and Training	$ 716,495	$ 196,386	$ 7,242,361	$ -	$ 8,155,242		$ 8,155,242	-	-	-	-	-	-	-	-	-
Connections	$ -	$ -	$ -	$ -	$ -		$ -	-	-	-	-	-	-	-	-	-
Strategic Planning	$ -	$ -	$ -	$ -	$ -		$ -	-	-	-	-	-	-	-	-	-
WET Career Connections	$ 4,560	$ 28,500	$ 422,940	$ -	$ 456,000		$ 456,000	-	-	-	-	-	-	-	-	-
WET Career Connections - PA Costs	$ 70,490	$ 7,392	$ 92,864	$ -	$ 170,745		$ 170,745	-	-	-	-	-	-	-	-	-
WET Career and Workforce Readiness	$ 65,976	$ 47,434	$ 749,018	$ -	$ 862,427		$ 862,427	-	-	-	-	-	-	-	-	-
WET Career and Workforce Readiness - PA Costs	$ 109,172	$ 1,478	$ 101,977	$ -	$ 212,628		$ 212,628	-	-	-	-	-	-	-	-	-
PG&E Admin Costs for RENs & CCAs	$ 16,189	$ -	$ 174,269	$ -	$ 190,458		$ 190,458	-	-	-	-	-	-	-	-	-
					$ -		$ -									
					$ -		$ -									
PA PROGRAM TOTAL	$ 33,849,971	$ 11,222,469	$ 136,821,820	$ 81,763,719	$ 263,657,979	$ -	$ 263,657,979	1,732,663,924	329,329	40,744,874	467,730	241,692	21,110,084,370	479,009,733	6,700,139	2,845,950
EM&V - PA	[redacted]				$ 3,021,081		$ 3,021,081	[redacted]								
EM&V - ED	[redacted]				$ 7,964,668		$ 7,964,668	[redacted]								
EM&V TOTAL	[redacted]				$ 10,985,749	$ -	$ 10,985,749	[redacted]								
PA Program and EM&V Total	$ 33,849,971	$ 11,222,469	$ 136,821,820	$ 81,763,719	$ 274,643,728	$ -	$ 274,643,728	1,732,663,923.72	329,329.12	40,744,873.88	467,729.94	241,691.99	21,110,084,369.53	479,009,733.19	6,700,138.68	2,845,950.43
Applicable Annual % of difference between funding limitation & 2020 EE ABAL budget 3	[redacted]				$ 69,349,755	$ -	$ 69,349,755	[redacted]								
IOU 2020 and Beyond Uncommitted and Unspent Carryover Balance	[redacted]				$ -	$ -	$ -	[redacted]								
CEC AB 841 Total	[redacted]				$ 69,349,755	$ -	$ 69,349,755	[redacted]								
PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	$ 33,849,971	$ 11,222,469	$ 136,821,820	$ 81,763,719	$ 343,993,483	$ -	$ 343,993,483	1,732,663,923.72	329,329.12	40,744,873.88	467,729.94	241,691.99	21,110,084,369.53	479,009,733.19	6,700,138.68	2,845,950.43
New Financing Offerings					$ -		$ -									
					$ -		$ -									
					$ -		$ -									
					$ -		$ -									
					$ -		$ -									
					$ -		$ -									
Financing Pilot Programs Total	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-	-	-	-	-	-	-	-	-
ME&O 1		$ -			$ -		$ -									
ESA 2	$ 172,231,361				$ 172,231,361		$ 172,231,361	35,800,000.00	3,200.00	1,460,000.00						
					$ -		$ -									

Notes:
1 Statewide ME&O requested budget for 2021 per AL 4355-G/6045-E. Decision 21-03-056, authorized the Statewide ME&O Flex Alert funding for 2022.
2. ESA has separate budget, goals, and regulatory treatment to Energy Efficiency. The ESA 2021-2026 Budgets and Goals were set in D. 21-06-015. The ESA budget, spend, and first year net savings figures provided here are for information purposes only. Stakeholders interested in further information on ESA should reference D. 21-06-015 and other Decisions within the low income proceeding. Advice Letter 4351-G-B/6035-E-B authorized the 1/1/2021-6/30/2021 ESA budget.
3 Per D.21-01-004, percentage allocation is 70% for 2022 and 60% for 2023. Per PG&E Advice 4374-G/6070-E, these percentages equal $80,908,048 and $69,349,755 in 2022 and 2023, respectively.
4 The PG&E EE Portfolio 2022 and 2023 cost recovery amounts include estimates for certain benefit burden and other overhead costs; the 2022 figure has been determined through 2020 General Rate Case (GRC) D.20-12-005 while the final figure for 2023 may change depending on the final amounts or methodology approved by the Commission as part of PG&E's 2023-2026 GRC.
5 EM&V cost only includes PG&E's Total 4% EM&V budget (PA + ED). This amount does not include REN or CCA EM&V budget.
6 PAs have the option of inputting by program or by total; PG&E input the total.
7 Programs closing before 1/1/2022 have Portfolio Segment listed as N/A because portfolio segmentation does not apply until 2022. The programs are listed here to capture 2021 expenditures.

Pa Name: Pacific Gas and Electric Company

Budget Year: 2022-2023

Table 5 - Committed Energy Efficiency Program Funding - Funds Not Yet Spent as of 8/31/2021

Accrued funds not yet spent Category	Electric Procurement Funds	Natural Gas Public Purpose Funds	Total
2017 to date EM&V Funds	$12,162,480	$2,316,663	$14,479,143
2017 to date Program Funds - Utility [1]	$420,000	$80,000	$500,000
2017 to date Program Funds - BayREN	$0	$0	$0
2017 to date Program Funds - MCE	$0	$0	$0
2018 to date EM&V Funds	$9,660,972	$1,840,185	$11,501,157
2018 to date Program Funds - Utility [1]	$420,000	$80,000	$500,000
2018 to date Program Funds - BayREN	$0	$0	$0
2018 to date Program Funds - MCE	$0	$0	$0
2019 to date EM&V Funds	($1,243,457)	($392,671)	($1,636,128)
2019 to date Program Funds - Utility [1]	$380,000	$120,000	$500,000
2019 to date Program Funds - BayREN	$0	$0	$0
2019 to date Program Funds - MCE	$0	$0	$0
2020 to date EM&V Funds	($3,514,795)	($1,506,341)	($5,021,136)
2020 to date Program Funds - Utility [1]	$350,000	$150,000	$500,000
2020 to date Program Funds - BayREN	$592,224	$253,810	$846,034
2020 to date Program Funds - MCE	($214,786)	($92,051)	($306,838)
2020 to date Program Funds - 3C REN	$961,246	$411,962	$1,373,208
2021 to date EM&V Funds	$11,174,306	$2,288,713	$13,463,019
2021 to date Program Funds - Utility [2]	$2,075,000	$425,000	$2,500,000
2021 to date Program Funds - BayREN	$245,782	$50,341	$296,123
2021 to date Program Funds - MCE	($230,520)	($47,215)	($277,735)
2021 to date Program Funds - 3C REN	$2,359,380	$483,246	$2,842,626

1 Utility Funds represent New Financing Pilots funding initially authorized in the 2013-2015 cycle. Additional funding for this program was authorized in AL 3904-G/5175-E, approved effective December 3, 2017. $500,000 per year for 2017 through 2020 were committed to continuously fund this program.
2 The PY2021 commitment of $2.5m reflects PG&E administration costs related to the CHEEF program, per PG&E Advice 4495-G/6341-E.

Pa Name: Pacific Gas and Electric Pacific Gas and Electric Company
Budget Year: 2022-2023 2022-2023

Table 6 - Statewide Programs

Statewide Program*	Lead IOU	2020 Program Contract Budget (Total for all IOUs)**	2021 Program Contract Budget (Total for all IOUs)**	2022 Program Contract Budget (Total for all IOUs)**	2023 Program Contract Budget (Total for all IOUs)**	Expected or Actual Contract Execution Date (MM/YYYY)***	Percent Electric	Combined (Electric & Gas) Proportional Contribution to Contract Cost per Load-Share (Either as reflected in co-funding agreement, or expected in co-funding agreement. Funding share may be within +/-20% of Target per formula in row 1 above)				2020 Program Contract Expenditures by IOU**				2020 IOU Administrative Expenditures^				2021 Total Program Contract Expenditures, as Reported by Lead IOU** (YTD as of July 31, 2021)	2021 IOU Administrative Expenditures (YTD as of July 31, 2021)^				2022 IOU Administrative Budgets^				2023 IOU Administrative Budgets^			
								PG&E	SDG&E	SCE	SCG	PG&E	SDG&E	SCE	SCG	PG&E	SDG&E	SCE	SCG	2021 Total Contract Expenditures	PG&E	SDG&E	SCE	SCG	PG&E	SDG&E	SCE	SCG	PG&E	SDG&E	SCE	SCG
Workforce education, and training: Career and workforce readiness	PG&E	$ -	$ 389,260	$ 1,756,054	$ 1,891,288	Aug-2021	80%	45.60%	13.96%	32.08%	8.36%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 26,700	$ 1,015	$ -	$ -	$ -	$ 204,159	$ 3,231	$ 10,312	$ 14,500	$ 212,628	$ 3,262	$ 10,312	$ 17,500
Res New Construction (all electric)		$ 1,000,000	$ 657,000	$ 3,236,740	$ 6,759,536	Jul-2021	100%	44.40%	15.50%	40.10%	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 414,586	$ 3,205	$ 23,758	$ -	$ 725,585	$ 4,643	$ 23,758	$ -
Res New Construction (mixed fuel)			$ 596,500	$ 1,895,840	$ 2,545,541	Jul-2021	80%	45.60%	13.96%	32.08%	8.36%									$ -	$ -	$ -	$ -	$ -	$ 378,930	$ 2,425	$ 11,132	$ 42,500	$ 493,180	$ 2,628	$ 11,132	$ 48,000
NonRes New Construction (all electric)		$ 1,666,667	$ -	$ 348,879	$ 3,409,051	Dec-2020	100%	44.40%	15.50%	40.10%	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 28,059	$ -	$ -	$ -	$ 258,878	$ 3,528	$ 2,560	$ -	$ 549,023	$ 3,014	$ 2,560	$ -
NonRes New Construction (mixed fuel)			$ -	$ 983,492	$ 8,746,903	Dec-2020	80%	45.60%	13.96%	32.08%	8.36%									$ -	$ 27,266	$ -	$ -	$ -	$ 309,521	$ 3,690	$ 4,488	$ 10,000	$ 1,026,673	$ 4,835	$ 5,776	$ 12,500
Codes and Standards Advocacy (Appl)		$ 3,714,408	$ 3,847,799	$ 1,827,419	$ 1,827,419	Jan-2020	80%	45.60%	13.96%	32.08%	8.36%	$ 896,909	$ 255,108	$ 628,938	$ 287,769	$ 2,132,520	$ 23,474	$ -	$ -	$ 1,452,681	$ 1,052,057	$21,625	$ -	$ -	$ 541,053	$ 39,562	$ 54,324	$ 2,000	$ 544,228	$ 57,181	$ 54,324	$ 2,300
Codes and Standards Advocacy (Bldg)		$ 5,998,421	$ 5,795,123	$ 5,998,421	$ 5,998,421	Jan-2020	80%					$ 3,535,596	$ 1,014,221	$ 2,518,355	$ 501,468	$ 1,109,067	$ 35,211	$ -	$ -	$ 2,855,322	$ 1,089,047	$28,918	$ -	$ -	$ 1,656,823	$ 48,939	$ 106,043	$ 2,000	$ 2,504,911	$ 66,712	$ 106,043	$ 2,300
Codes and Standards Advocacy (Natl)		$ 3,442,171	$ 3,512,080	$ 5,329,160	$ 5,329,160	Jan-2020	80%					$ 1,992,822	$ 567,109	$ 1,398,747	$ 310,524	$ 189,864	$ 20,540	$ -	$ -	$ 3,272,165	$ 120,533	$21,083	$ -	$ -	$ 597,327	$ 39,378	$ 65,371	$ 2,000	$ 596,203	$ 57,018	$ 65,371	$ 2,300
Institutional Partnerships, DGS & Dept of Corrections		$ -	$ 120,000	$ 1,490,351	$ 4,230,309	May-2021	80%	45.60%	13.96%	32.08%	8.36%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 405,358	$ 3,088	$ 8,751	$ 14,500	$ 748,491	$ 3,178	$ 8,751	$ 17,500
WE&T K-12 Connections		$ -	$ 85,000	$ 1,000,000	$ 1,000,000	Aug-2021	80%	45.60%	13.96%	32.08%	8.36%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 21,500	$ 4,005	$ -	$ -	$ -	$ 167,642	$ 2,883	$ 5,872	$ 14,500	$ 170,745	$ 2,900	$ 5,872	$ 17,500
Water/wastewater pumping	SCE	$ -	$ -	$ 1,988,742	$ 6,135,311	Apr-2022	80%	45.60%	13.96%	32.08%	8.36%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 325,526	$ 3,951	$ 36,113	$ 15,000	$ 402,588	$ 5,454	$ 36,113	$ 18,000
Lighting (Upstream)		$ -	$ 7,488,000	$ 13,737,600	$ 14,042,880	Sep-2020	100%	44.40%	15.50%	40.10%	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 381,996	$ 16,695	$ 291,508	$ -	$ 411,089	$ 14,848	$ 291,508	$ -
ETP, electric		$ -	$ -	$ 14,857,972	$ 18,889,144	Aug-2021	100%	44.40%	15.50%	40.10%	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 346,396	$ 167,639	$ 337,248	$ -	$ 391,569	$ 220,561	$ 337,248	$ -
Institutional Partnerships, UC/CSU/CCC		$ -	$ -	$ 1,988,742	$ 6,135,311	Feb-2022	80%	45.60%	13.96%	32.08%	8.36%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 336,778	$ 3,952	$ 36,114	$ 15,000	$ 414,237	$ 5,454	$ 36,114	$ 18,000
ETP, gas	SCG	$ -	$ 144,325	$ 2,053,992	$ 4,339,776	Jun-2021	0%	50.40%	7.80%	0.00%	41.80%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ 341,833	$ 15,812	$ -	$ 310,738	$ 387,006	$ 20,642	$ -	$ 320,933
Food Service POS		$ -	$ 9,862,776	$ 15,333,260	$ 18,343,225	Dec-2020	40%	48.00%	10.88%	16.04%	25.08%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,426,644		$ -	$ -	$ -	$ 569,189	$ 10,157	$ 45,019	$ 349,768	$ 638,207	$ 10,589	$ 45,019	$ 361,868
Midstream Comm Water Heating		$ -	$ 7,324,277	$ 14,690,333	$ 17,252,452	Dec-2020	40%	48.00%	10.88%	16.04%	25.08%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 468,574		$ -	$ -	$ 896	$ 500,620	$ 8,134	$ 43,131	$ 329,239	$ 563,974	$ 9,039	$ 43,131	$ 341,942
Res HVAC CI/QM	SDG&E	$ -	$ -	$ -	$ 6,900,000	Aug-2022	80%	45.60%	13.96%	32.08%	8.36%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 288,365	$ 616,495	$ -	$ 20,000
Plug Load and Appliance		$ -	$ -	$ 14,735,004	$ 15,261,637	Dec-2021	80%	45.60%	13.96%	32.08%	8.36%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 421,561	$ 1,357,882	$ 86,524	$ 20,000	$ 465,031	$ 1,367,330	$ 86,524	$ 23,000
Upstream HVAC (Comm + Res)		$ -	$ 10,195,516	$ 13,097,045	$ 13,681,748	Oct-2020	80%	45.60%	13.96%	32.08%	8.36%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,745,041		$ 179,796		$ -	$ 483,078	$ 1,105,384	$ 76,906	$ 20,000	$ 507,301	$ 1,009,270	$ 76,906	$ 23,000
Total		**$ 15,821,667**	**$ 50,017,656**	**$ 116,349,047**	**$ 162,719,112**							**$ -**	**$ 1,836,438**	**$4,546,040**	**$1,099,761**	**$ 3,431,451**	**$ 79,225**	**$ -**	**$ -**	**$ 11,268,627**	**$ 2,321,982**	**$ 251,422**	**$ -**	**$ 896**	**$ 8,641,255**	**$ 2,839,535**	**$ 1,245,174**	**$ 1,161,745**	**$ 12,041,036**	**$ 3,485,052**	**$ 1,246,462**	**$ 1,246,643**

*Modify rows as needed to reflect consolidation or division of a program category per solicitation approach or contracts. Ultimately there should be one line per executed 3P contract.
The contract budget or signed contract amount **for a given year accounts for the anticipated launch date of the program. **Program contract budgets reflect third party implementation contract values and expenditures.**
^ Administrative budgets for statewide programs are IOU specific and are filed under separate program IDs. They include all non-contract program expenditures which cover coordination, support and management. PG&E's Administrative Expenses for SW Codes and Standards Advocacy include costs associated with the Applied Technology Services (ATS) testing laboratories.
***Launch date assumes that the signed contracts filed via AL are approved by ED in 90-days, where applicable.

BP Decision (D.18-05-041): OP 23. The 25 percent requirement for statewide funding articulated in D.16-08-019 shall be calculated as a proportion of the utility program administrator's total portfolio budget, including evaluation, measurement, and verification funding, but excluding funding allocated to other program administrators for other (non-statewide) programs. The percentage requirement for statewide program funding for the Southern California Gas Company shall be reduced to 15 percent, but remain 25 percent for the other utility program administrators consistent with D.16-08-019.

INPUT TABLE: DO NOT MODIFY						
IOU	Percent PPP Electric	Percent PPP Gas			Electric Proportional Share	Gas Proportional Share
PG&E	80%	20%			44.4%	50.4%
SDG&E	90%	10%			15.5%	7.8%
SCE	100%	0%			40.1%	0.0%
SoCalGas	0%	100%			0.0%	41.8%

ADVICE LETTER 3268-E-A/2701-G-A
(San Diego Gas & Electric Company - U902 M)
ADVICE LETTER 5346-G-A
(Southern California Gas Company - U904 G)
ADVICE LETTER 3861-E-A
(Southern California Edison Company - U338 E)
ADVICE LETTER 5373-E-A/4009-G-A
(Pacific Gas & Electric Company – U39 M)

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 7 - PA Program Year Budget Savings

Line	Sector	Program Year (PY) 2022 Budget	FORECAST ENERGY SAVINGS (Net) PA forecast kWh	PA forecast kW	PA forecast therms	PA Forecast Elec CO2	PA Forecast GasCO2	Program Year (PY) 2023 Budget	FORECAST ENERGY SAVINGS (Net) PA forecast kWh	PA forecast kW	PA forecast therms	PA Forecast Elec CO2	PA Forecast GasCO2
	Resource Acquisition Program Segment												
	Residential	$36,905,048	215,560,008	44,209	7,048,435	58,808	41,378	$39,137,537	234,163,424.80	48,273.30	#########	66,838.54	48,139.35
	Commercial	$50,995,029	54,247,601	9,157	2,510,227	13,565	14,750	$56,101,869	58,136,658.58	10,458.42	#########	15,037.44	18,150.98
	Industrial	$39,128,861	67,979,031	4,806	7,903,558	17,708	46,236	$31,498,405	57,902,192.55	5,078.50	#########	15,678.38	30,762.90
	Agricultural	$14,162,062	22,624,397	2,655	134,293	5,871	786	$21,382,558	33,154,444.36	3,679.07	224,065.81	8,954.56	1,310.78
	Emerging Tech	$0	-	-	-	-	-	$0	-	-	-	-	-
	Public	$10,549,373	16,649,656	2,581	360,186	3,914	2,393	$16,583,593	23,494,102.68	4,758.56	800,595.65	5,837.11	4,972.49
1	WE&T	$0	-	-	-	-	-	$0	-	-	-	-	-
2	Finance	$4,421,610	48,519,205	6,941	276,378	12,660	1,617	$4,654,846	38,064,192.68	6,470.91	123,316.16	10,335.29	721.40
3	OBF Loan Pool	$14,000,000	-	-	-	-	-	$17,000,000	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$170,161,983**	**425,579,899**	**70,350**	**18,233,077**	**112,526**	**107,159**	**$186,358,909**	**444,915,016**	**78,719**	**17,698,027**	**122,681**	**104,058**
	Resource Acquisition Forecasted Total System Benefit (TSB)	$330,073,682						$347,527,626					
	Resource Acquisition Forecasted Total Resource Cost (TRC)	1.28						1.36					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	2.15						2.09					
	Market Support Program Segment												
	Residential	$11,800,150	6,507,799	1,296	248,665	662	2,335	$11,723,007	11,523,985.41	476.78	228,663.07	(238.06)	3,786.37
	Commercial	$946,288	680,065	123	11,698	139	95	$2,880,634	3,930,058.78	916.77	117,449.23	551.63	1,048.42
	Industrial	$255,461	169,256	28	14,825	42	87	$1,944,392	2,232,775.08	366.52	197,567.54	574.05	1,155.77
	Agricultural	$120,058	38,512	10	749	10	4	$573,747	513,870.50	138.73	10,240.78	132.00	59.91
	Emerging Tech	$11,194,608	-	-	-	-	-	$11,352,603	-	-	-	-	-
	Public	$4,895,121	50,209	19	3,388	12	20	$5,462,576	665,799.84	252.47	46,448.78	170.27	271.73
1	WE&T	$8,725,030	-	-	-	-	-	$8,781,988	-	-	-	-	-
2	Finance	$0	-	-	-	-	-	$0	-	-	-	-	-
3	OBF Loan Pool	$0	-	-	-	-	-	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$37,936,717**	**7,445,842**	**1,476**	**279,325**	**865**	**2,541**	**$42,718,946**	**18,866,490**	**2,151**	**600,369**	**1,190**	**6,322**
	Resource Acquisition Forecasted Total System Benefit (TSB)	$8,773,561						$23,177,068					
	Portfolio Forecasted Total Resource Cost (TRC)	0.21						0.62					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	0.31						0.78					
	Equity Program Segment												
	Residential	$0	-	-	-	-	-	$3,448,906	-	-	-	-	-
	Commercial	$1,904,883	-	-	-	-	-	$5,263,331	-	-	-	-	-
	Industrial	$0	-	-	-	-	-	$0	-	-	-	-	-
	Agricultural	$0	-	-	-	-	-	$0	-	-	-	-	-
	Emerging Tech	$0	-	-	-	-	-	$0	-	-	-	-	-
	Public	$1,813,589	2,349,682	85	(4,835)	608	(28)	$0	-	-	-	-	-
1	WE&T	$1,004,920	-	-	-	-	-	$1,075,055	-	-	-	-	-
2	Finance	$0	-	-	-	-	-	$0	-	-	-	-	-
3	OBF Loan Pool	$0	-	-	-	-	-	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$4,723,391**	**2,349,682**	**85**	**(4,835)**	**608**	**(28)**	**$9,787,292**	-	-	-	-	-
	Resource Acquisition Forecasted Total System Benefit (TSB)	$911,220						$0					
	Portfolio Forecasted Total Resource Cost (TRC)	0.19						0.00					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	0.19						0.00					
	Portfolio												
	Residential	$48,705,198	222,067,807	45,505	7,297,100	59,469	43,713	$54,309,449	245,687,410.21	48,749.99	#########	66,600.49	51,925.72
	Commercial	$53,846,200	54,927,666	9,280	2,521,925	13,704	14,846	$64,245,934	62,066,717.36	11,375.19	#########	15,589.06	19,199.40
	Industrial	$39,384,322	68,148,287	4,834	7,918,382	17,750	46,323	$33,442,797	60,134,967.63	5,445.03	#########	16,252.43	31,918.67
	Agricultural	$14,282,120	22,662,909	2,666	135,042	5,881	790	$21,956,306	33,668,314.86	3,817.80	234,306.59	9,086.57	1,370.69
	Emerging Tech	$11,194,608	-	-	-	-	-	$11,352,603	-	-	-	-	-
	Public	$17,258,083	19,049,547	2,685	358,739	4,535	2,384	$22,046,170	24,159,902.52	5,011.03	847,044.43	6,007.38	5,244.22
1	WE&T	$9,729,949	-	-	-	-	-	$9,857,042	-	-	-	-	-
2	Finance	$4,421,610	48,519,205	6,941	276,378	12,660	1,617	$4,654,846	38,064,192.68	6,470.91	123,316.16	10,335.29	721.40
3	OBF Loan Pool	$14,000,000	-	-	-	-	-	$17,000,000	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$212,822,091**	**435,375,422**	**71,911**	**18,507,567**	**113,999**	**109,672**	**$238,865,147**	**463,781,505**	**80,870**	**18,298,396**	**123,871**	**110,380**
5	**CPUC Savings Goal (w/o C&S)**		$51,000,000	75,000	13,000,000				597,000,000	81,000	14,000,000		
6	**Forecast savings as % of CPUC Savings Goal (w/o C&S)**		78.7%	95.9%	142.4%				77.7%	99.8%	130.7%		
7	**Total EM&V** [5]	$9,906,121						$10,985,749					
7a	PA EM&V	$2,999,183						$3,021,081					
7b	ED EM&V	$6,906,938						$7,964,668					
	Portfolio Forecasted Total System Benefit (TSB)	$339,758,463						$370,704,694					
	Portfolio Forecasted Total Resource Cost -TRC (w/o C&S and w/ EM&V)	1.07						1.18					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	1.72						1.69					
	Portfolio Forecasted Ratepayer Impact Measure (RIM)	0.73						0.74					
8	**Codes and Standards**	$24,924,815	1,202,765,304	212,173	19,198,912	315,650	112,314	$24,792,832	1,268,882,418	248,459	22,446,478	343,859	131,312
9	**PA Spending Budget Request**[1]	$247,653,027						$274,643,728					
10	**(LESS) PA Pre-2020 Uncommitted and Unspent Carryover Balance**[2]	$33,937,234						$0					
11	**CEC AB 841 Program Funding**												
12	Applicable percentage (70% and 60%) of difference between funding limitation and 2020 budget3	$80,908,048						$69,349,755					
13	PA 2020 and Beyond Uncommitted and Unspent Carryover Balance [4]	$0						$0					
14	**CEC AB 841 Total Program Funding**	$80,908,048						$69,349,755					
15	**PA Revenue Requirement Request (Cost Recovery)**	$294,623,842						$343,993,483					
	% of Equity and Market Support Program Budgets to PA Spending Budget Request (not to Exceed	18%						20%					
16	**PA Authorized Budget Cap (D.18-05-041)**	$354,970,997						$354,508,439					
	For CCA & RENS in IOU Service Territory Only--(IOU PA Only to complete)												
21	**REN Budget Recovery Request**	$23,466,425						$32,465,668					
21a	BayREN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	22,754,065						26,682,993					
21b	SoCal REN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	-						-					
21c	3CREN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	712,365						5,782,675					
21d	RCEA PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	-						-					
22	**CCA Budget Recovery Request**	$14,388,951						$15,362,756					
22a	MCE PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	14,388,951						15,362,756					
22b	Lancaster PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	-						-					
	Redwood Coast Energy Authority (excl. REN Uncommitted/Unspent Carryover) [6]	-						-					
	San Jose Clean Energy (excl. REN Uncommitted/Unspent Carryover) [7]	-						-					
17	**Total PA (IOU+CCAs+RENs) Recovery Budget**	$332,479,218						$391,821,907					

1 This is PG&E's requested EE Portfolio budget. This is the budget by which the Statewide Program compliance budget requirement of 25% will be measured.
2 This unspent/uncommitted amount reflects the total unspent uncommitted from pre-2020 EE authorized budgets.
3 These amounts are pursuant to D.21-01-004, Tables 2 and 3.
4 In its 2021 ABAL, PG&E already committed $10,000,000 in estimated unspent/uncommitted 2020 program funds to the CEC for the 2021 Schools Stimulus Program. This 2022-2023 BBAL confirms an additional $12,334,487 in unspent/uncommitted 2020 program funds to fund the 2020 Schools Stimulus Program. That amount is neither a budget request, nor an offset to PG&E's current recovery request, so it is not included in these budget or revenue requirement calculations. PG&E is forcasting $0 in unspent/uncommitted 2021 and 2022 program funds.
5 This EM&V amount includes PG&E's Total EM&V budget (PA + ED) and does not include REN or CCAs EM&V budget.
6 These 2022 and 2023 values are zero because PG&E transferred $1,896,704 to Redwood Coast Energy Authority out of PG&E's 2020 unspent and uncommitted funds per Resolution E-5050: Certification of Redwood Coast Energy Authority's Energy Efficiency Program Administration Plan. June 3, 2020.
7 These 2022 and 2023 values are zero because PG&E already allocated and transferred $5.067m of PG&E's 2021 unspent/uncommitted funds to SJCE per Resolution E-5166: Certification of San Jose Clean Energy's Energy Efficiency Program Administration Plan. September 10, 2021

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 8 - Caps & Targets

		2022 Energy Efficiency Cap And Target Expenditure Projections						2023 Energy Efficiency Cap And Target Expenditure Projections					
		Expenditures			Cap & Target Performance			Expenditures			Cap & Target Performance		
Line	Budget Category	Non-Third Party Qualifying Costs (including PA costs and old-definition 3P/GP contracts that don't meet the new definition)	Third Party Qualifying Costs [2] (Local SW, CEC & AB 841)	Total Portfolio	Percent of Budget [8]	Cap %	Target %	Non-Third Party Qualifying Costs (including PA costs and old-definition 3P/GP contracts that don't meet the new definition)	Third Party Qualifying Costs [2] (including SW)	Total Portfolio	Percent of Budget [8]	Cap %	Target %
1	**Administrative Costs**												
2	PA [1]	$ 15,100,745		$ 15,100,745	4.6%	10.0%		$ 16,445,657		$ 16,445,657	4.8%	10.0%	
3	Non-PA Third Party & Partnership [2]	$ 4,082,846	$ 7,671,104	$ 11,753,951	3.5%		10.0%	$ 2,427,905	$ 10,424,030	$ 12,851,935	3.7%		10.0%
4	PA & Non-PA Target Exempt Programs [3]	$ 3,843,379	$ 944,484	$ 4,787,864				$ 3,508,388	$ 1,043,991	$ 4,552,379			
5	**Marketing and Outreach Costs [4]**												
6	Marketing & Outreach	$ 5,252,872	$ 5,277,502	$ 10,530,375	3.2%		6.0%	$ 5,040,756	$ 6,181,713	$ 11,222,469	3.3%		6.0%
7	Statewide Marketing & Outreach [5]	$ 3,242,387		$ 3,242,387				$ -		$ -			
8	**Direct Implementation Costs**												
9	Direct Implementation (Incentives and Rebates)	$ 30,819,037	$ 42,984,261	$ 73,803,298				$ 24,019,341	$ 57,744,378	$ 81,763,719			
10	Direct Implementation (Non Incentives and Non Rebates)	$ 29,461,613	$ 54,772,922	$ 84,234,535	25.4%		20.0%	$ 30,282,046	$ 69,745,300	$ 100,027,346	29.1%		20.0%
11	Direct Implementation Target Exempt Programs (Non Incentives and Non Rebates) [3]	**$ 26,348,218**	$ 11,187,921	$ 37,536,139				**$ 22,727,487**	$ 14,066,988	$ 36,794,474			
12	**EM&V Costs (PA and Energy Division) [6,7]**	**$ 9,906,121**		$ 9,906,121	3.1%	4.0%		**$ 10,985,749**		$ 10,985,749	3.3%	4.0%	
12a	EM&V - PA	$ 2,999,183		$ 2,999,183				$ 3,021,081		$ 3,021,081			
12b	EM&V - ED	$ 6,906,938		$ 6,906,938				$ 7,964,668		$ 7,964,668			
13	**Total Portfolio Budget (includes PA Program and EM&V Budget + SW ME&O) [8]**	**$ 128,057,219**	**$ 122,838,195**	**$ 250,895,414**				**$ 115,437,328**	**$ 159,206,399**	**$ 274,643,728**			
14	**CEC AB 841 (per CPUC Code Section 1613 counts as a Third Party Program as defined in D.18-08-019, OP 10)**		**$ 80,908,048**	**$ 80,908,048**					**$ 69,349,755**	**$ 69,349,755**			
15	**PA Spending Budget Request (PA Program and EM&V + CEC AB 841) [9]**			**$ 331,803,462**						**$ 343,993,483**			
16	**Total Third-Party Implementer Contracts + CEC AB 841 (as defined per D.16-08-019, OP 10 and D.21-01-xxx OP) [10, 11]**		**$ 203,746,243**		**64.8%**		**40.0%**		**$ 228,556,154**		**69.9%**		**60.0%**

Notes:
1. 10% cap requirement based on D. 09-09-047 is set for IOU only.
2. New Third party program definition per D.16-08-019, OP 10. For Row 3 of this table, the "Third Party & Partnership" administrative costs under the "Non-Third Party Qualifying Costs" column are costs for programs that met the old Third Party definition prior to the transition to the new third party definition.
3. Target Exempt Programs are Non-Resource Programs which include: Emerging Technologies, Workforce Education & Training, Strategic Energy Resources (SER) program, 3P Placeholder for Public LGPs, and Codes & Standards programs (excluding Building Codes Advocacy, Appliance Standards
4. Statewide Marketing & Outreach (SW ME&O) is excluded from the Marketing and Outreach cost target calculation per D.13-12-038, at p. 82.
5. Statewide ME&O requested budget for 2021 per AL 4355-G/6045-E. Decision 21-03-056, authorized the Statewide ME&O Flex Alert funding for 2022.
6. For IOUs, EM&V costs only includes IOU's Total EM&V budget (PA + ED) and does not include REN or CCAs EM&V budget. For RENs & CCAs, include EM&V-PA Budget and EM&V-ED = $0 .
7. The EM&V percentage is based on PA's total portfolio budget of $321,273,088 for 2022 and $332,771,014 for 2023, which excludes SWME&O, RENs, CCAs and CEC AB 841. This is the Total in line 13, minus SWME&O in line 7.
8. As directed in the Energy Efficiency Policy Manual Version 5 July 2013, page 92, this total includes SW ME&O and excludes REN and CCA budgets and is the denominator used to calculate the IOU PA Admin, Marketing, and Direct Implementation Non-Incentives percentages.
9. IOU PA's 2022 Proposed Budget of $328,561,075 excludes SWME&O budget of $3,242,387 and includes CEC AB 841 budgets of $80,908,048.
10. IOU PA's percentage for Third-Party Implementer Contracts uses $314,561,075 for 2022 and $326,993,483 for 2023 as its denominator, which is IOU PA Subtotal including EM&V and CEC AB 841, but excluding SWME&O, REN, and CCA and OBF Loan Pool. This is the Total in line 15 minus, minus
11. IOU's Third-Party Implementer Contracts (as defined per D.16-08-019, OP 10) includes third-party contract and incentive budgets and statewide qualifying contract and incentive budgets and CEC AB 841.

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
PORTFOLIO SUMMARY

	2020 EE Portfolio Expenditures				2022 EE Portfolio Budget				2023 EE Portfolio Budget				2020 EE Portfolio Savings**			2022 EE Portfolio Forecasted Savings			2023 EE Portfolio Forecasted Savings		
Sector	Labor	Non-Labor (excl. Incentives)	Incentives	Total	Labor	Non-Labor (excl. Incentives)	Incentives	Total	Labor	Non-Labor (excl. Incentives)	Incentives	Total	KWH	KW	MTHERMS	KWH	KW	MTHERMS	KWH	KW	MTHERMS
Residential	6,251,358	22,589,672	8,824,687	**37,665,716**	$ 5,788,257	$ 32,641,560	10,275,381	**48,705,198**	$ 6,034,277	$ 38,883,407	9,391,765	**54,309,449**	166,220,003	32,293	6,593,080	222,067,807	45,505	7,297,100	245,687,410	48,750	8,431,319
Commercial	9,914,052	17,742,019	15,365,547	**43,021,618**	$ 9,170,665	$ 21,979,573	22,695,963	**53,846,200**	$ 10,134,552	$ 27,244,217	26,867,164	**64,245,934**	55,286,644	8,659	2,709,667	54,927,666	9,280	2,521,925	62,066,717	11,375	3,206,227
Industrial	5,741,537	11,727,261	2,130,443	**19,599,241**	$ 7,165,119	$ 15,850,879	16,368,325	**39,384,322**	$ 6,385,844	$ 14,897,243	12,159,710	**33,442,797**	32,835,520	3,241	4,859,164	68,148,287	4,834	7,918,382	60,134,968	5,445	5,456,183
Agricultural	3,153,258	2,805,832	5,648,980	**11,608,069**	$ 2,398,414	$ 6,143,254	5,740,451	**14,282,120**	$ 3,099,202	$ 9,615,088	9,242,015	**21,956,306**	12,611,015	4,664	925,398	22,662,909	2,666	135,042	33,668,315	3,818	234,307
Public	5,042,603	10,489,776	5,922,604	**21,454,983**	$ 3,397,720	$ 9,137,184	4,723,179	**17,258,083**	$ 3,716,504	$ 11,226,601	7,103,065	**22,046,170**	23,127,766	2,746	510,461	19,049,547	2,685	358,739	24,159,903	5,011	847,044
Cross Cutting*	10,986,210	30,578,098	85,777	**41,650,085**	$ 10,487,608	$ 39,783,375	(0)	**50,270,983**	$ 10,304,023	$ 40,353,301	-	**50,657,323**	23,406,432	3,113	113,856	1,251,284,509	219,114	19,475,290	1,306,946,611	254,930	22,569,794
Total Sector Budget	41,089,018	95,932,657	37,978,037	**174,999,712**	$ 38,407,783	$ 125,535,825	59,803,298	**223,746,906**	$ 39,674,403	$ 142,219,857	64,763,719	**246,657,979**	313,487,380	54,716	15,711,627	1,638,140,726	284,083	37,706,478	1,732,663,924	329,329	40,744,874
EM&V-PA	1,456,428	681,223	-	**2,137,651**	$ 1,164,996	$ 1,834,187	-	**2,999,183**	$ 1,206,004	$ 1,815,077	-	**3,021,081**									
EM&V-ED	13,325	12,689,717	-	**12,703,042**	$ -	$ 6,906,938	-	**6,906,938**	$ -	$ 7,964,668	-	**7,964,668**									
OBF - Loan Pool	-	-	27,902,676	**27,902,676**	$ -	$ -	14,000,000	**14,000,000**	$ -	$ -	17,000,000	**17,000,000**									
CEC AB841	-	-	-	-	$ -	$ 80,908,048	-	**80,908,048**	$ -	$ 69,349,755	-	**69,349,755**									
PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	**42,558,770**	**109,303,598**	**65,880,714**	**217,743,082**	**$ 39,572,779**	**$ 215,184,998**	**73,803,298**	**328,561,075**	**$ 40,880,407**	**$ 221,349,358**	**81,763,719**	**343,993,483**	**313,487,380.31**	**54,716**	**15,711,627**	**1,638,140,726**	**284,083**	**37,706,478**	**1,732,663,924**	**329,329**	**40,744,874**

* Cross Cutting Sector includes Codes & Standards, Emerging Technologies, Workforce Education & Training, Finance.
** 2020 EE portfolio first-year net savings exclude savings from Codes and Standards advocacy programs as well as savings from RENs and CCAs

Pa Name: Pacific Gas and Electric Company

Budget Year: 2022-2023

PORTFOLIO STAFFING

Functional Group	2020 EE Portfolio FTE	2022 EE Portfolio FTE	2023 EE Portfolio FTE
Policy, Strategy, and Regulatory Reporting Compliance	23.5	20.8	20.8
Program Management	70.9	67.6	67.6
Engineering Services	35.8	31.1	31.1
Customer Application/Rebate/Incentive Processing	11.9	11.3	11.3
Customer Project Inspections	1.8	4.9	4.9
Portfolio Analytics	1.1	1.1	1.1
EM&V	6.2	5.4	5.4
ME&O (Local)	8.2	6.4	6.2
Account Management / Sales	48.2	32.2	32.2
IT	13.9	11.3	11.8
Call Center	1.2	2.0	2.0
Total	222.8	194.0	194.4

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
RESIDENTIAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023EE Portfolio Budget
Residential	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$1.3	$1.0	$1.1
		Program Management	$2.5	$2.3	$2.4
		Engineering services	$0.1	$0.3	$0.4
		Customer Application/Rebate/Incentive Processing	$0.2	$0.3	$0.2
		Customer Project Inspections	$0.0	$0.2	$0.1
		Portfolio Analytics	$0.1	$0.0	$0.1
		ME&O (Local)	$0.4	$0.6	$0.6
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$0.8	$0.9	$0.9
		Call Center	$0.4	$0.1	$0.1
	Labor Total		$5.8	$5.8	$6.0
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$13.5	$26.7	$33.6
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$4.4	$1.3	$0.5
		Policy, Strategy, and Regulatory Reporting Compliance	$0.4	$0.2	$0.3
		Program Management	$0.5	$0.3	$0.3
		Engineering services	$0.2	$0.5	$0.6
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$2.1	$2.1	$2.0
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$1.9	$1.5	$1.7
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$6.9	$2.7	$0.0
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$2.0	$7.5	$9.4
	Non-Labor Total		$31.8	$42.9	$48.3
Residential Total			$37.7	$48.7	$54.3
	Other (collected through GRC) (2)	Labor Overheads	$0.8	$0.8	$0.8

Notes: (1) Labor costs are already loaded with (state loaders covered by EE)

(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
COMMERCIAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Commercial	**Labor(1)**	Policy, Strategy, and Regulatory Reporting Compliance	$0.9	$0.7	$0.9
		Program Management	$1.9	$2.3	$2.5
		Engineering services	$1.9	$0.9	$1.1
		Customer Application/Rebate/Incentive Processing	$0.3	$0.4	$0.5
		Customer Project Inspections	$0.2	$0.3	$0.3
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.8	$0.7	$0.7
		Account Management / Sales	$2.8	$3.5	$3.7
		IT	$0.7	$0.3	$0.5
		Call Center	$0.0	$0.1	$0.1
	Labor Total		$9.6	$9.2	$10.1
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$0.9	$18.1	$23.3
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$11.6	$0.2	$0.3
		Policy, Strategy, and Regulatory Reporting Compliance (3)	-$0.1	$0.2	$0.2
		Program Management	$0.3	$0.2	$0.2
		Engineering services	$2.0	$1.1	$0.7
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$1.5	$1.4	$1.4
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$1.8	$0.8	$1.1
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$15.4	$1.3	$1.3
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.0	$21.4	$25.6
	Non-Labor Total		$33.4	$44.7	$54.1
Commercial Total (5)			$43.0	$53.8	$64.2
	Other (collected through GRC) (2)	Labor Overheads	$1.3	$1.3	$1.4

Notes:
(1) Labor costs are already loaded with (state loaders covered by EE)
(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.
(3) Negative incentives primarily represents a reversal of an accrual from the previous year.

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
INDUSTRIAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Industrial	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$0.5	$0.9	$0.7
		Program Management	$1.3	$2.0	$2.0
		Engineering services	$1.8	$2.7	$2.2
		Customer Application/Rebate/Incentive Processing	$0.1	$0.2	$0.2
		Customer Project Inspections	$0.0	$0.1	$0.1
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.1	$0.1	$0.1
		Account Management / Sales	$1.4	$0.6	$0.6
		IT	$0.4	$0.4	$0.4
		Call Center	$0.0	$0.1	$0.1
	Labor Total		$5.6	$7.2	$6.4
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$0.8	$7.6	$8.0
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$8.8	$5.6	$4.3
		Policy, Strategy, and Regulatory Reporting Compliance	$0.2	$0.2	$0.2
		Program Management	$0.2	$0.2	$0.2
		Engineering services	$0.6	$1.1	$1.3
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.1	$0.0	$0.0
		ME&O (Local)	$0.2	$0.1	$0.1
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$1.0	$1.0	$0.8
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$1.9	$10.0	$4.7
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.3	$6.3	$7.5
	Non-Labor Total		$14.0	$32.2	$27.1
Industrial Total (5)			$19.6	$39.4	$33.4
	Other (collected through GRC) (2)	Labor Overheads	$0.8	$1.0	$0.9

Notes: 1 Labor costs are already loaded with (state loaders covered by EE)
2 These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
AGRICULTURAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Agricultural	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$0.3	$0.3	$0.5
		Program Management	$0.6	$0.7	$0.9
		Engineering services	$0.8	$0.3	$0.5
		Customer Application/Rebate/Incentive Processing	$0.1	$0.1	$0.2
		Customer Project Inspections	$0.0	$0.1	$0.1
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.2	$0.0	$0.1
		Account Management / Sales	$1.0	$0.5	$0.5
		IT	$0.2	$0.2	$0.3
		Call Center	$0.0	$0.0	$0.1
	Labor Total		$3.1	$2.4	$3.1
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$0.5	$5.3	$8.4
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$1.0	$0.0	$0.0
		Policy, Strategy, and Regulatory Reporting Compliance	$0.1	$0.1	$0.1
		Program Management	$0.1	$0.1	$0.1
		Engineering services	$0.4	$0.2	$0.2
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.4	$0.1	$0.1
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$0.4	$0.4	$0.6
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$5.6	$0.9	$0.6
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.1	$4.8	$8.6
	Non-Labor Total		$8.5	$11.9	$18.9
Agricultural Total (5)			$11.6	$14.3	$22.0
	Other (collected through GRC) (2)	Labor Overheads	$0.4	$0.3	$0.4

Notes: (1) Labor costs are already loaded with (state loaders covered by EE)
(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022,

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
PUBLIC SECTOR BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Public Sector	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$0.5	$0.5	$0.5
		Program Management	$1.7	$1.6	$1.7
		Engineering services	$0.9	$0.2	$0.4
		Customer Application/Rebate/Incentive Processing	$0.1	$0.1	$0.2
		Customer Project Inspections	$0.0	$0.1	$0.1
		Portfolio Analytics	$0.1	$0.0	$0.0
		ME&O (Local)	$0.0	$0.1	$0.1
		Account Management / Sales	$1.2	$0.4	$0.4
		IT	$0.4	$0.2	$0.2
		Call Center	$0.0	$0.0	$0.1
	Labor Total		$4.8	$3.4	$3.7
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$1.3	$7.2	$10.2
		Local/Government Partnerships Contracts (3)	$4.9	$0.0	$0.0
		Other Contracts			
		Program Implementation	$2.8	$1.1	$0.0
		Policy, Strategy, and Regulatory Reporting Compliance	$0.1	$0.1	$0.1
		Program Management	$0.2	$0.1	$0.1
		Engineering services	$0.3	$0.1	$0.2
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.1	$0.0	$0.0
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$0.9	$0.5	$0.6
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$5.9	$1.8	$0.4
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.0	$2.9	$6.7
	Non-Labor Total		$16.6	$13.9	$18.3
Public Sector Total (5)			$21.5	$17.3	$22.0
	Other (collected through GRC) (2)	Labor Overheads	$0.7	$0.5	$0.5

Notes: 1 Labor costs are already loaded with (state loaders covered by EE)

2 These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
CROSS -CUTTING BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Cross-Cutting	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$0.9	$1.0	$0.9
		Program Management	$5.7	$5.3	$5.4
		Engineering services	$1.9	$2.4	$2.2
		Customer Application/Rebate/Incentive Processing	$0.8	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.3	$0.3	$0.3
		Account Management / Sales	$1.1	$0.9	$0.9
		IT	$0.1	$0.5	$0.4
		Call Center	$0.0	$0.1	$0.1
	Labor Total		$10.9	$10.5	$10.3
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$6.4	$14.9	$17.9
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$19.9	$20.3	$18.1
		Policy, Strategy, and Regulatory Reporting Compliance	$0.3	$0.2	$0.2
		Program Management	$0.8	$0.9	$0.8
		Engineering services	$1.7	$1.9	$1.8
		Customer Application/Rebate/Incentive Processing	$0.1	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.9	$0.5	$0.5
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$0.6	$1.1	$1.1
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$0.1	$0.0	$0.0
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.0	$0.0	$0.0
	Non-Labor Total		$30.8	$39.8	$40.4
Cross-Cutting Total (5)			$41.6	$50.3	$50.7
	Other (collected through GRC) (2)	Labor Overheads	$1.5	$1.4	$1.4

Notes: (1) Labor costs are already loaded with (state loaders covered by EE)

(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 17: Metrics Compliance Filing
2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
0	PG&E	A03	PL1	G	MT CO2eq	NEW: Energy Savings	Metric	Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Portfolio Level (PL)– All Sectors	2016	563.033	N/A	N/A	569.554	608.241	540.933	433.280	475.653	474.409	508,241	520.442	769.553	N/A	N/A	Calculated using CET, and reported by sector consistent with primary sector groupings in CEDARS PROGRAM specification. Includes Codes and Standards. BayREN, MCE, and ESA not included.	Includes CO2 but not NOX and PM10 as these are not GHG equivalents. New GHG added to CET for 2018. As of April 19, 2020, electric C02 emissions reduction values output by the Cost Effectiveness Tool (CET) and displayed in CEDARS are under investigation. Per an email from Energy Division staff to Program Administrators on February 6, 2020, these values appear to undercount C02 emissions reductions. As a result, the C02 emissions reduction values may be revised in the future, with final, up-to-date values available for review in CEDARS. For 2019, this metric shows the value in CEDARS as of April 19, 2020, the date the report was finalized.
1	PG&E	A02	PL1	S1	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW gross	Portfolio Level (PL)– All Sectors	2016	292.190	N/A	N/A	569.554	358.184	270.352	224.595	244.026	255.705	303,778	320.720	297.762	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Codes and Standards savings are net with 5% market effects.
2	PG&E	A02	PL1	S1	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW net	Portfolio Level (PL)– All Sectors	2016	260.502	N/A	N/A	569.554	342.670	253.848	203.694	221.115	234.078	279,688	296.884	291.944	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Codes and Standards savings are net with 5% market effects.
3	PG&E	A02	PL1	S1	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh gross	Portfolio Level (PL)– All Sectors	2016	1.406.109.178	N/A	N/A	569.554	1.369.921.779	1.322.044.331	1.098.820.360	1.204.324.338	1.197.455.793	1,285,232,093	1.312.081.001	1.759.114.678	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Codes and Standards savings are net with 5% market effects.
4	PG&E	A02	PL1	S1	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh net	Portfolio Level (PL)– All Sectors	2016	1.277.130.842	N/A	N/A	569.554	1.287.987.963	1.256.467.831	982.811.096	1.078.924.937	1.076.104.441	1,152,845,111	1.180.520.489	1.732.265.088	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Codes and Standards savings are net with 5% market effects.
5	PG&E	A02	PL1	S1	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm gross	Portfolio Level (PL)– All Sectors	2016	23.593.324	N/A	N/A	569.554	33.248.177	32.253.283	32.743.548	35.932.646	37.725.503	47,690,586	50.128.882	41.182.638	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Codes and Standards savings are net with 5% market effects.
6	PG&E	A02	PL1	S1	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm net	Portfolio Level (PL)– All Sectors	2016	21.221.406	N/A	N/A	569.554	29.965.470	27.708.207	30.899.241	33.581.873	35.787.781	41,979,275	43.920.087	35.780.351	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Codes and Standards savings are net with 5% market effects.
7	PG&E	A02	PL1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	Lifecycle ex-ante kW gross	Portfolio Level (PL)– All Sectors	2016	2.914.361	N/A	N/A	569.554	4.665.515	3.260.989	2.240.149	2.433.957	2.550.452	3,029,944	3.198.918	3.385.351	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), which is consistent with regulatory reporting of portfolio energy savings. 2016 achievements align with savings reported in 2016 Annual Report. Since the 2018 Potential and Goals Study does not include lifecycle savings, PG&E estimated lifecycle targets based on 2016 achievements (baseline) and first-year savings targets.	Codes and Standards savings are net with 5% market effects.
8	PG&E	A02	PL1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW net	Portfolio Level (PL)– All Sectors	2016	2.630.800	N/A	N/A	569.554	4.546.856	3.092.775	1.997.206	2.169.995	2.273.857	2,701,348	2.851.997	3.283.522	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), which is consistent with regulatory reporting of portfolio energy savings. 2016 achievements align with savings reported in 2016 Annual Report. Since the 2018 Potential and Goals Study does not include lifecycle savings, PG&E estimated lifecycle targets based on 2016 achievements (baseline) and first-year savings targets.	Codes and Standards savings are net with 5% market effects.
9	PG&E	A02	PL1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh gross	Portfolio Level (PL)– All Sectors	2016	14.130.908.391	N/A	N/A	569.554	16.109.235.039	15.424.505.378	11.042.762.599	12.103.040.903	12.034.014.410	12,916,135,707	13.185.957.902	22.910.625.863	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), which is consistent with regulatory reporting of portfolio energy savings. 2016 achievements align with savings reported in 2016 Annual Report. Since the 2018 Potential and Goals Study does not include lifecycle savings, PG&E estimated lifecycle targets based on 2016 achievements (baseline) and first-year savings targets.	Codes and Standards savings are net with 5% market effects.
10	PG&E	A02	PL1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh net	Portfolio Level (PL)– All Sectors	2016	12.720.204.439	N/A	N/A	569.554	15.268.203.696	14.718.206.559	10.029.841.858	10.992.863.893	10.930.169.001	11,731,375,857	11.976.448.041	22.596.506.037	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), which is consistent with regulatory reporting of portfolio energy savings. 2016 achievements align with savings reported in 2016 Annual Report. Since the 2018 Potential and Goals Study does not include lifecycle savings, PG&E estimated lifecycle targets based on 2016 achievements (baseline) and first-year savings targets.	Codes and Standards savings are net with 5% market effects.
11	PG&E	A02	PL1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm gross	Portfolio Level (PL)– All Sectors	2016	275.401.153	N/A	N/A	569.554	362.416.433	324.309.824	382.210.264	419.436.112	440.363.845	556,684,689	585.146.530	436.741.326	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), which is consistent with regulatory reporting of portfolio energy savings. 2016 achievements align with savings reported in 2016 Annual Report. Since the 2018 Potential and Goals Study does not include lifecycle savings, PG&E estimated lifecycle targets based on 2016 achievements (baseline) and first-year savings targets.	Codes and Standards savings are net with 5% market effects.
12	PG&E	A02	PL1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm net	Portfolio Level (PL)– All Sectors	2016	243.906.851	N/A	N/A	569.554	321.002.504	274.481.549	343.785.353	377.268.758	396.092.554	500,719,264	526.319.738	394.828.997	N/A	N/A	Portfolio Energy Savings include Codes and Standards, ESA, Bay Area Regional Energy Network (BayREN), and Marin Clean Energy (MCE), which is consistent with regulatory reporting of portfolio energy savings. 2016 achievements align with savings reported in 2016 Annual Report. Since the 2018 Potential and Goals Study does not include lifecycle savings, PG&E estimated lifecycle targets based on 2016 achievements (baseline) and first-year savings targets.	Codes and Standards savings are net with 5% market effects.
13	PG&E	A02	PL2	S3	First year annual kW gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual kW gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	28.388	N/A	N/A	569.554	14.757	15312	21.821	23.709	24.844	29,514	31.160	6.040	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
14	PG&E	A02	PL2	S3	First year annual kW net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual kW net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	19.509	N/A	N/A	569.554	10.431	10030	15.254	16.559	17.530	20,946	22.233	4.168	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
15	PG&E	A02	PL2	S3	First year annual kWh gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual kWh gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	104.888.728	N/A	N/A	569.554	78.056.148	69622484	81.966.516	89.836.586	89.324.227	95,871,901	97.874.696	31.264.164	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
16	PG&E	A02	PL2	S3	First year annual kWh net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual kWh net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	72.243.493	N/A	N/A	569.554	58.813.142	49326216	55.594.700	61.031.574	60.872.027	65,213,019	66.778.533	23.954.547	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
17	PG&E	A02	PL2	S3	First year annual Therm gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual Therm gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	1.190.084	N/A	N/A	569.554	3.914.308	5600820	1.651.635	1.812.498	1.902.933	2,405,587	2.528.578	5.441.531	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
18	PG&E	A02	PL2	S3	First year annual Therm net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual Therm net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	833.222	N/A	N/A	569.554	2.621.066	3312030	1.213.205	1.318.534	1.405.146	1,648,244	1.724.447	2.688.251	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
19	PG&E	A02	PL2	S3	Lifecycle ex-ante kW gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kW gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	240.674	N/A	N/A	569.554	778.291.286	123839	184.996	201.001	210.622	250,219	264.174	64.610	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
20	PG&E	A02	PL2	S3	Lifecycle ex-ante kW net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kW net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	164.624	N/A	N/A	569.554	616.661.200	82357	124.976	135.789	142.288	169,038	178.465	42.823	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
21	PG&E	A02	PL2	S3	Lifecycle ex-ante kWh gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kWh gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	970.453.492	N/A	N/A	569.554	140.213	693583096	758.372.161	831.187.776	826.447.316	887,027,830	905.558.124	284.351.353	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
22	PG&E	A02	PL2	S3	Lifecycle ex-ante kWh net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kWh net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	657.271.636	N/A	N/A	569.554	105.151	496721197	518.256.652	568.017.414	564.777.877	606,177,412	618.840.651	207.100.543	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
23	PG&E	A02	PL2	S3	Lifecycle ex-ante Therm gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante Therm gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	13.085.317	N/A	N/A	569.554	27.512.356	52217493	18.160.209	19.928.945	20.923.299	26,450,128	27.802.454	27.276.414	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
24	PG&E	A02	PL2	S3	Lifecycle ex-ante Therm net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante Therm net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	8.536.556	N/A	N/A	569.554	17.966.609	30498092	12.032.229	13.204.123	13.862.941	17,524,798	18.420.795	15.357.818	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18-05-041
25	PG&E	A02	PL3	S4	First year annual kW gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	First year annual kW gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	51.180	N/A	N/A	569.554	2.899	3483	39.340	42.744	44.790	53,210	56.178	1.548	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in D.18-05-041
26	PG&E	A02	PL3	S4	First year annual kW net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	First year annual kW net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	35.092	N/A	N/A	569.554	2.082	2822	27.439	29.786	31.532	37,676	39.992	1.176	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in D.18-05-041

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
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Index	PA	Attch Page	Attch Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Attl A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (Mid-Term Target)	Short Term Annual Targets (Mid-Term Target)	Short Term Annual Targets 2020 (Target)	Mid Term Annual Targets (2021+2023)	Long Term Annual Target (2018a,2019+)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
27	PG&E	A02	PL3	S4	First year annual kWh gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	First year annual kWh gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	188,154,982	N/A	N/A	569,554	16,158,731	20784124	147,035,897	161,153,648	160,234,551	171,380,117	175,572,836	12,660,489	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the measurement of overall portfolio savings goals.	eTRM definition adopted in D.18-05-041
28	PG&E	A02	PL3	S4	First year annual kWh net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	First year annual kWh net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	129,080,984	N/A	N/A	569,554	12,428,604	18739736	99,323,780	109,068,109	108,763,039	116,519,301	119,316,482	11,283,383	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the measurement of overall portfolio savings goals.	eTRM definition adopted in D.18-05-041
29	PG&E	A02	PL3	S4	First year annual Therm gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	First year annual Therm gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	1,638,151	N/A	N/A	569,554	-2,085	-49085	3,134,024	3,347,602	3,459,460	3,169,157	3,328,130	-13,513	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the measurement of overall portfolio savings goals.	eTRM definition adopted in D.18-05-041
30	PG&E	A02	PL3	S4	First year annual Therm net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	First year annual Therm net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	1,117,271	N/A	N/A	569,554	-6,965	-54734	1,626,793	1,768,600	1,884,160	2,210,139	2,312,169	-12,975	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the measurement of overall portfolio savings goals.	eTRM definition adopted in D.18-05-041
31	PG&E	A02	PL3	S4	Lifecycle ex-ante kW gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante kW gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	410,278	N/A	N/A	569,554	135,705,086	21197	315,264	342,648	359,040	426,549	450,137	6,864	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the measurement of overall portfolio savings goals.	eTRM definition adopted in D.18-05-041
32	PG&E	A02	PL3	S4	Lifecycle ex-ante kW net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante kW net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	273,983	N/A	N/A	569,554	104,602,330	20966	208,691	226,994	236,818	281,240	297,036	5,181	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the measurement of overall portfolio savings goals.	eTRM definition adopted in D.18-05-041
33	PG&E	A02	PL3	S4	Lifecycle ex-ante kWh gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante kWh gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	1,684,734,581	N/A	N/A	569,554	39,935	7193818906	1,346,000,439	1,447,960,373	1,454,730,490	1,539,905,289	1,577,974,596	58,444,478	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the measurement of overall portfolio savings goals.	eTRM definition adopted in D.18-05-041
34	PG&E	A02	PL3	S4	Lifecycle ex-ante kWh net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante kWh net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	1,127,229,268	N/A	N/A	569,554	14,629	1832715281	888,816,728	974,167,169	968,601,271	1,039,602,065	1,063,219,625	52,342,021	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the measurement of overall portfolio savings goals.	eTRM definition adopted in D.18-05-041

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 17: Metrics Compliance Filing
2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
35	PG&E	A02	PL3	S4	Lifecycle ex-ante Therm gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante Therm gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	15.797.858	N/A	N/A	569.554	-199.416	-444945	21.924.757	24.060.147	25.260.626	31,933,147	33.565.806	101.589	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in D.18-05-041
36	PG&E	A02	PL3	S4	Lifecycle ex-ante Therm net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante Therm net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	10.439.141	N/A	N/A	569.554	-176.715	-407387	14.713.911	16.146.991	16.952.643	21,430,636	22.526.328	75.838	N/A	N/A	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in D.18-05-041
37	PG&E	A02	PL4	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Portfolio Level (PL)– All Sectors	2016	$446.16	$357.466.832	801.209	569554	$120.64	$348.00	$435.01	$435.01	$435.01	413	$401.54	$566.47	$152.113.175.84	268.526.61	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications. PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW Portfolio TRC and PAC excludes ESA, BayREN, and MCE benefits and program costs, SW ET program costs per D.12-11-015 (p. 52), and Financing OBF Loan Pool amounts per D.09-09-047 (p. 288).	Levelized costs do not include codes and standards, per D.18-05-041.
38	PG&E	A02	PL4	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Portfolio Level (PL)– All Sectors	2016	$0.08	$357.466.832	4.248.268.766	569554	$0.06	-	$0.08	$0.08	$0.08	0	$0.08	$0.11	$152.113.175.84	1.367.830.088.19	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications. PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively Portfolio TRC and PAC excludes ESA, BayREN, and MCE benefits and program costs, SW ET program costs per D.12-11-015 (p. 52), and Financing OBF Loan Pool amounts per D.09-09-047 (p. 288).	Levelized costs do not include codes and standards, per D.18-05-041.
39	PG&E	A02	PL4	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Portfolio Level (PL)– All Sectors	2016	$0.51	$45.113.354	88.206.891	569554	$0.53	1.00	$0.50	$0.50	$0.50	0	$0.46	$0.36	$30.332.548.56	84.363.085.35	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications. PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively Portfolio TRC and PAC excludes ESA, BayREN, and MCE benefits and program costs, SW ET program costs per D.12-11-015 (p. 52), and Financing OBF Loan Pool amounts per D.09-09-047 (p. 288).	Levelized costs do not include codes and standards, per D.18-05-041.
40	PG&E	A02	PL4	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Portfolio Level (PL)– All Sectors	2016	$674.19	$540.167.726	801.209	569554	$189.97	541.00	$657.34	$657.34	$657.34	624	$606.77	$1.025.27	$275.311.193.55	268.526.61	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications. TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW. Portfolio TRC and PAC excludes ESA, BayREN, and MCE benefits and program costs, SW ET program costs per D.12-11-015 (p. 52), and Financing OBF Loan Pool amounts per D.09-09-047 (p. 288).	Levelized costs do not include codes and standards, per D.18-05-041.
41	PG&E	A02	PL4	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Portfolio Level (PL)– All Sectors	2016	$0.13	$540.167.726	4.248.268.766	569554	$0.09	-	$0.12	$0.12	$0.12	0	$0.11	$0.20	$275.311.193.55	1.367.830.088.19	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications. TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW. Portfolio TRC and PAC excludes ESA, BayREN, and MCE benefits and program costs, SW ET program costs per D.12-11-015 (p. 52), and Financing OBF Loan Pool amounts per D.09-09-047 (p. 288).	Levelized costs do not include codes and standards, per D.18-05-041.
42	PG&E	A02	PL4	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Portfolio Level (PL)– All Sectors	2016	$0.77	$68.170.738	88.206.891	569554	$0.83	1.00	$0.75	$0.75	$0.75	1	$0.70	$0.65	$54.899.190.03	84.363.085.35	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications. TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW Portfolio TRC and PAC excludes ESA, BayREN, and MCE benefits and program costs, SW ET program costs per D.12-11-015 (p. 52), and Financing OBF Loan Pool amounts per D.09-09-047 (p. 288).	Levelized costs do not include codes and standards, per D.18-05-041.
43	PG&E	A02	RSF1	S1	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual kW gross	Residential (RSF)	2016	39.900	N/A	N/A	569.554	38.176	39986.98748	32.437	44.639	42.416	45,472	47.538	25.844.06	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
44	PG&E	A02	RSF1	S1	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual kW net	Residential (RSF)	2016	34.733	N/A	N/A	569.554	34.926	38291.21898	30.042	41.301	39.926	42,728	44.874	26.691.39	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
45	PG&E	A02	RSF1	S1	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual kWh gross	Residential (RSF)	2016	150.787.255	N/A	N/A	569.554	194.294.084	221322569.5	152.753.524	213.638.729	208.743.714	236,369,990	260.973.932	133.427.547.24	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
46	PG&E	A02	RSF1	S1	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual kWh net	Residential (RSF)	2016	142.699.079	N/A	N/A	569.554	189.496.811	216718773.1	143.439.942	199.382.064	196.891.387	217,644,942	236.758.824	136.294.532.98	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
47	PG&E	A02	RSF1	S1	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual Therm gross	Residential (RSF)	2016	4.632.719	N/A	N/A	569.554	4.886.355	3802555.465	9.470.631	11.898.350	10.568.294	13,108,479	13.035.818	5.327.346.69	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
48	PG&E	A02	RSF1	S1	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual Therm net	Residential (RSF)	2016	4.336.882	N/A	N/A	569.554	4.641.630	3720909.629	8.451.068	10.539.716	9.568.634	10,106,555	10.229.762	5.391.258.49	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
49	PG&E	A02	RSF1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante kW gross	Residential (RSF)	2016	169.455	N/A	N/A	569.554	206.084	243276.4553	137.759	189.581	180.141	193,118	201.894	32.070.19	N/A	N/A	2016 achievements align with savings reported in 2016 Annual Report.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
50	PG&E	A02	RSF1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante kW net	Residential (RSF)	2016	131.010	N/A	N/A	569.554	171.971	225471.0296	119.919	165.030	156.813	168,110	175.749	28.701.36	N/A	N/A	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings targets.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
51	PG&E	A02	RSF1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante kWh gross	Residential (RSF)	2016	412.342.972	N/A	N/A	569.554	1.095.587.656	1616837189	417.719.934	584.216.674	570.830.760	646,377,600	713.659.563	152.327.552.42	N/A	N/A	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings targets.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
52	PG&E	A02	RSF1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante kWh net	Residential (RSF)	2016	318.969.695	N/A	N/A	569.554	988.795.041	1531978918	395.313.582	552.879.494	540.211.596	611,706,130	675.379.112	148.560.051.25	N/A	N/A	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings targets.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
53	PG&E	A02	RSF1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante Therm gross	Residential (RSF)	2016	13.933.586	N/A	N/A	569.554	9.475.125	-12793166.14	28.484.322	35.786.042	31.785.705	39,425,686	39.207.147	8.806.308.29	N/A	N/A	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings targets.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
54	PG&E	A02	RSF1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante Therm net	Residential (RSF)	2016	10.744.757	N/A	N/A	569.554	2.947.893	-15975573.06	26.665.365	33.500.811	29.755.928	36,908,034	36.703.450	7.423.138.92	N/A	N/A	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings targets.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family customers.
55	PG&E	A03	RSF2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Residential (RSF)	2016	66.498	N/A	N/A	569.554	22.275	104491	66.843	92.912	91.752	101,423	110.330	46.548.04	N/A	N/A	Calculated using CET, and reported in the MF segment by dwelling type.	Includes CO2 but not NOX and PM10 as these are not GHG equivalents. For details regarding electric CO2 emissions reduction values, refer to note in cell AA5
56	PG&E	A03	RSF3	D1-D	Lifecycle NET kW	D1: Depth of interventions: Per downstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kW net savings per participant - Opt-in - Downstream	Residential (RSF)	2016	1.53	106.110	69.408	569554	2.91	1	1.57	1.59	1.62	2	1.72	0.15	1.874	12.522	Numerator: Total downstream savings claimed Denominator: Total number of downstream participants (unique premise and account IDs)	Per ED: "Energy savings" = lifecycle NET savings.
57	PG&E	A03	RSF3	D1-D	Lifecycle NET kWh	D1: Depth of interventions: Per downstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kWh net savings per participant - Opt-in - Downstream	Residential (RSF)	2016	3.005	208.538.195	69.408	569.554	6.763	2.353	3089	3132	3176	3,266	3381	637.249	7.979.630	12.522	Numerator: Total downstream savings claimed Denominator: Total number of downstream participants (unique premise and account IDs)	Per ED: "Energy savings" = lifecycle NET savings.
58	PG&E	A03	RSF3	D1-D	Lifecycle NET Therms	D1: Depth of interventions: Per downstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Downstream	Residential (RSF)	2016	106.37	7.383.257	69.408	569554	616.83	169	109	111	112	116	120	165.007	2.066.214	12.522	Numerator: Total downstream savings claimed Denominator: Total number of downstream participants (unique premise and account IDs)	Per ED: "Energy savings" = lifecycle NET savings.
59	PG&E	A03	RSF3	D1-M	Lifecycle NET kW	D1: Depth of interventions: Per midstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kW net savings per participant - Opt-in - Midstream	Residential (RSF)	2016	N/A	69.100	N/A	569554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Midstream methodology –NOT FEASIBLE••••Numerator: Total midstream savings claimed ••Denominator: (not available) number or sector of midstream participants	Since it is currently unclear how to define midstream "participants," PAs and ED agreed to report only the numerator for this metric in the compliance filing.
60	PG&E	A03	RSF3	D1-M	Lifecycle NET kWh	D1: Depth of interventions: Per midstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kWh net savings per participant - Opt-in - Midstream	Residential (RSF)	2016	N/A	70.830.960	N/A	569554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Midstream methodology –NOT FEASIBLE••••Numerator: Total midstream savings claimed ••Denominator: (not available) number or sector of midstream participants	Since it is currently unclear how to define midstream "participants," PAs and ED agreed to report only the numerator for this metric in the compliance filing.
61	PG&E	A03	RSF3	D1-M	Lifecycle NET Therms	D1: Depth of interventions: Per midstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Midstream	Residential (RSF)	2016	N/A	2.325.660	N/A	569554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Midstream methodology –NOT FEASIBLE••••Numerator: Total midstream savings claimed ••Denominator: (not available) number or sector of midstream participants	Since it is currently unclear how to define midstream "participants," PAs and ED agreed to report only the numerator for this metric in the compliance filing.
62	PG&E	A03	RSF3	D1-O	Lifecycle NET kW	D1: Depth of interventions: Per opt out participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kW net savings per participant - Opt-out	Residential (RSF)	2016	0.02	30.000	1.500.000	569554	0.24	0	0.021	0.021	0.021	0	0.023	0.015	24.867	1.701.709	Numerator: net lifecycle savings from Home Energy Reports Denominator: total number of Home Energy Reports	1) Currently, the only opt-out program is the Home Energy Report using social norming through neighborhood comparisons 2) Per ED: "Energy savings" = lifecycle NET savings.
63	PG&E	A03	RSF3	D1-O	Lifecycle NET kWh	D1: Depth of interventions: Per opt out participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kWh net savings per participant - Opt-out	Residential (RSF)	2016	89	133.050.000	1.500.000	569554	1703	87	91	92	94	96	100	78.744	133.999.707	1.701.709	Numerator: net lifecycle savings from Home Energy Reports Denominator: total number of Home Energy Reports	1) Currently, the only opt-out program is the Home Energy Report using social norming through neighborhood comparisons 2) Per ED: "Energy savings" = lifecycle NET savings.
64	PG&E	A03	RSF3	D1-O	Lifecycle NET Therms	D1: Depth of interventions: Per opt out participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante Therm net savings per participant - Opt-out	Residential (RSF)	2016	2.7	4.050.000	1.500.000	569554	65.9	4	2.8	2.8	2.9	3	3	3.003	5.109.701	1.701.709	Numerator: net lifecycle savings from Home Energy Reports Denominator: total number of Home Energy Reports	1) Currently, the only opt-out program is the Home Energy Report using social norming through neighborhood comparisons 2) Per ED: "Energy savings" = lifecycle NET savings.
65	PG&E	A03	RSF3	D1-U	Lifecycle NET kW	D1: Depth of interventions: Per upstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kW net savings per participant - Opt-in - Upstream	Residential (RSF)	2016	N/A	1.316	N/A	569554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Upstream methodology– NOT FEASIBLE••Numerator: Total upstream savings claimed••Denominator: (not available) number or sector of of upstream participants	Since it is unclear how to define upstream "participants," PAs and ED agreed to report only the numerator for this metric in the compliance filing.

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 17: Metrics Compliance Filing
2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
66	PG&E	A03	RSF3	D1-U	Lifecycle NET kWh	D1: Depth of interventions: Per upstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kWh net savings per participant - Opt-in - Upstream	Residential (RSF)	2016	N/A	896,980	N/A	569554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Upstream methodology– NOT FEASIBLE••Numerator: Total upstream savings claimed••Denominator: (not available) number or sector of of upstream participants	Since it is unclear how to define upstream "participants," PAs and ED agreed to report only the numerator for this metric in the compliance filing.
67	PG&E	A03	RSF3	D1-U	Lifecycle NET Therms	D1: Depth of interventions: Per upstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Upstream	Residential (RSF)	2016	N/A	124,823	N/A	569554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	136,174	N/A	Upstream methodology– NOT FEASIBLE••Numerator: Total upstream savings claimed••Denominator: (not available) number or sector of of upstream participants	Since it is unclear how to define upstream "participants," PAs and ED agreed to report only the numerator for this metric in the compliance filing.
68	PG&E	A03	RSF4	P1	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population	Percent of participation relative to eligible population	Residential (RSF)	2016	1.60%	69,408	4,474,840	569554	3.29%	0	1.60%	2.30%	2.30%	0	3.10%	0.28%	12,522	4,529,782	Numerator: Number of downstream SF participants (unique account and premise IDs) Denominator: total number of unique SF account and premise IDs	"Participation" is defined as the first instance of participation.
69	PG&E	A03	RSF4	P3	Percent	P3: Penetration of energy efficiency programs in the eligible market - DAC	Metric	Percent of participation in disadvantaged communities	Percent of participation in disadvantaged communities	Residential (RSF)	2016	3.00%	16,236	548,892	569554	3.79%	0	3.02%	3.02%	3.02%	0	3.30%	0.22%	1,535	698,707	Numerator: Number of SF participants in DACs (unique account and premise IDs) Denominator: Total number of SF customers in DACs (unique account and premise IDs)	DAC customers defined in accordance with D.18-05-041
70	PG&E	A03	RSF4	P4	Percent	P4: Penetration of energy efficiency programs in the HTR market	Metric	Percent of participation by customers defined as "hard-to-reach"	Percent of participation by customers defined as "hard-to-reach"	Residential (RSF)	2016	2.40%	14,590	604,424	569554	0.27%	0	2.50%	2.50%	2.50%	0	2.70%	0.19%	1,224	658,196	Numerator: Number of SF HTR participants (unique account and premise IDs) Denominator: Total number of SF HTR customers (unique account and premise IDs)	HTR customers defined in accordance with D.18-05-041.
71	PG&E	A03	RSF5	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Residential (RSF)	2016	$441.92	$57,896,037	131,010	569554	$358.76	272	$419.83	$419.83	$419.83	398	$375.63	$778.73	$22,350,578.27	28,701.36	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
72	PG&E	A03	RSF5	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Residential (RSF)	2016	$0.18	$57,896,037	318,969,695	569554	$0.06	0	$0.17	$0.17	$0.17	0	$0.15	$0.15	$22,350,578.27	148,560,051.25	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
73	PG&E	A03	RSF5	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Residential (RSF)	2016	$1.03	$11,031,311	10,744,757	569554	$0.41	0	$0.98	$0.98	$0.98	1	$0.87	$0.60	$4,456,878.88	7,423,138.92	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
74	PG&E	A03	RSF5	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Residential (RSF)	2016	$660.14	$86,484,365	131,010	569554	$601.78	349	$627.13	$627.13	$627.13	594	$561.12	$1,109.69	$31,849,503.20	28,701.36	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
75	PG&E	A03	RSF5	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Residential (RSF)	2016	$0.27	$86,484,365	318,969,695	569554	$0.10	0	$0.26	$0.26	$0.26	0	$0.23	$0.21	$31,849,503.20	148,560,051.25	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
76	PG&E	A03	RSF5	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Residential (RSF)	2016	$1.53	$16,478,432	10,744,757	569554	$0.69	0	$1.46	$1.46	$1.46	1	$1.30	$0.86	$6,351,038.28	7,423,138.92	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
77	PG&E	A03	RSF6i	EI1	Btu	Energy intensity per SF household	Indicator	Average energy use intensity of single family homes (average usage per household – not adjusted)	Average electric and gas usage per household	Residential (RSF)	N/A - Indicato	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	4,529,782	Numerator: Total SF energy use from PG&E database (gas + electric) Denominator: Number of unique account and premise IDs in SF segment	Household refers to a unique account and premise ID in SF segment
78	PG&E	A03	RMF1	S1-IU	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW gross - In Unit	Residential Sector – Multi-family (RMF)	2016	7,949	N/A	N/A	569,554	5,465	4372.550381	6,826	8,700	8,902	10,153	11,034	268.48	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
79	PG&E	A03	RMF1	S1-IU	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW net - In Unit	Residential Sector – Multi-family (RMF)	2016	7,486	N/A	N/A	569,554	5,347	4482.912776	5,991	7,697	7,949	9,070	9,887	165.5	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
80	PG&E	A03	RMF1	S1-IU	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh gross - In Unit	Residential Sector – Multi-family (RMF)	2016	29,178,051	N/A	N/A	569,554	27,213,137	23903586.88	29,962,926	38,338,163	39,675,135	44,810,408	50,095,694	1,640,617.97	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
81	PG&E	A03	RMF1	S1-IU	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh net - In Unit	Residential Sector – Multi-family (RMF)	2016	28,722,383	N/A	N/A	569,554	27,779,364	24393012.75	27,008,041	34,587,874	35,941,953	40,044,569	44,301,932	1,381,311.97	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
82	PG&E	A03	RMF1	S1-IU	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm gross - In Unit	Residential Sector – Multi-family (RMF)	2016	856,377	N/A	N/A	569,554	1,222,538	1094811.415	1,422,317	1,783,970	1,823,791	2,752,920	3,588,837	92,942.14	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
83	PG&E	A03	RMF1	S1-IU	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm net - In Unit	Residential Sector – Multi-family (RMF)	2016	862,779	N/A	N/A	569,554	1,164,789	1085259.807	1,198,230	1,482,985	1,528,949	1,897,754	2,368,433	62,818.49	N/A	N/A	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
84	PG&E	A03	RMF1	S1-IU	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW gross - In Unit	Residential Sector – Multi-family (RMF)	2016	23,058	N/A	N/A	569,554	18,603	4821.574268	19,801	25,236	25,824	29,452	32,007	1,105.48	N/A	N/A	All baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
85	PG&E	A03	RMF1	S1-IU	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW net - In Unit	Residential Sector – Multi-family (RMF)	2016	18,653	N/A	N/A	569,554	16,094	4930.606936	18,648	23,766	24,319	27,737	30,143	643.52	N/A	N/A	All baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
86	PG&E	A03	RMF1	S1-IU	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh gross - In Unit	Residential Sector – Multi-family (RMF)	2016	55,044,963	N/A	N/A	569,554	55,869,480	28804776.62	56,525,645	72,325,693	74,847,917	84,535,710	94,506,505	11,247,387.45	N/A	N/A	All baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
87	PG&E	A03	RMF1	S1-IU	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh net - In Unit	Residential Sector – Multi-family (RMF)	2016	46,330,154	N/A	N/A	569,554	50,840,793	28475120.13	55,642,895	71,196,197	73,679,032	83,215,532	93,030,615	9,376,732.24	N/A	N/A	All baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
88	PG&E	A03	RMF1	S1-IU	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm gross - In Unit	Residential Sector – Multi-family (RMF)	2016	2,285,562	N/A	N/A	569,554	5,848,033	2454370.426	3,795,985	4,761,189	4,867,468	7,347,195	9,578,152	1,183,340.48	N/A	N/A	All baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
89	PG&E	A03	RMF1	S1-IU	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm net - In Unit	Residential Sector – Multi-family (RMF)	2016	1,815,288	N/A	N/A	569,554	4,190,605	1847365.176	3,824,362	4,796,783	4,903,856	7,402,120	9,649,755	749,543.85	N/A	N/A	All baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in D.17-09-025 and the 2018 Potential and Goals Study.	Multi-family designation based on dwelling type in PG&E database and refers to any buliding or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portfion of Home Energy Reports sent to multi-family customers.
90	PG&E	A03	RMF1	S1-MM	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	360.6611958	N/A	N/A	N/A	N/A	N/A	109.43	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
91	PG&E	A03	RMF1	S1-MM	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	235.1708686	N/A	N/A	N/A	N/A	N/A	65.68	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
92	PG&E	A03	RMF1	S1-MM	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	770377.3323	N/A	N/A	N/A	N/A	N/A	181,874.72	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	

Pa Name: Pacific Gas and Electric Company
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Table 17: Metrics Compliance Filing
2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	Attb Page	Attb Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Attb A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2018-2027)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
93	PG&E	AG3	RMF1	S1-MM	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	600651.6881	N/A	N/A	N/A	N/A	N/A	631,351.65	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
94	PG&E	AG3	RMF1	S1-MM	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	70294.58381	N/A	N/A	N/A	N/A	N/A	97,540.84	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
95	PG&E	AG3	RMF1	S1-MM	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	45630.14756	N/A	N/A	N/A	N/A	N/A	23,413.66	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
96	PG&E	AG3	RMF1	S1-MM	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	1235.229071	N/A	N/A	N/A	N/A	N/A	508.65	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
97	PG&E	AG3	RMF1	S1-MM	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	905.4973425	N/A	N/A	N/A	N/A	N/A	376.51	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
98	PG&E	AG3	RMF1	S1-MM	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	3784144.824	N/A	N/A	N/A	N/A	N/A	1,022,917.06	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
99	PG&E	AG3	RMF1	S1-MM	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	2942118.321	N/A	N/A	N/A	N/A	N/A	748,898.05	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	

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100	PG&E	A03	RMF1	S1-MM	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily sub-meters (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	976587.4329	N/A	N/A	N/A	N/A	N/A	543,021.62	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
101	PG&E	A03	RMF1	S1-MM	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily sub-meters (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	610272.2331	N/A	N/A	N/A	N/A	N/A	334,098.93	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
102	PG&E	A03	RMF1	SI-CA	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily sub-meters (in-unit, common area, and master metered accounts)	First year annual kW gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	65.55234261	N/A	N/A	N/A	N/A	N/A	75.95	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
103	PG&E	A03	RMF1	SI-CA	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily sub-meters (in-unit, common area, and master metered accounts)	First year annual kW net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	46.30816061	N/A	N/A	N/A	N/A	N/A	54.93	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
104	PG&E	A03	RMF1	SI-CA	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily sub-meters (in-unit, common area, and master metered accounts)	First year annual kWh gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	7047.692198	N/A	N/A	N/A	N/A	N/A	301,110.47	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
105	PG&E	A03	RMF1	SI-CA	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily sub-meters (in-unit, common area, and master metered accounts)	First year annual kWh net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	3006.62299	N/A	N/A	N/A	N/A	N/A	272,214.81	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
106	PG&E	A03	RMF1	SI-CA	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily sub-meters (in-unit, common area, and master metered accounts)	First year annual Therm gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	45787.27483	N/A	N/A	N/A	N/A	N/A	48,299.83	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	

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107	PG&E	A03	RMF1	SI-CA	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	-26806.23064	N/A	N/A	N/A	N/A	N/A	31,631.167	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
108	PG&E	A03	RMF1	SI-CA	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	62.92144821	N/A	N/A	N/A	N/A	N/A	646.8	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
109	PG&E	A03	RMF1	SI-CA	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	68.15586017	N/A	N/A	N/A	N/A	N/A	267.65	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
110	PG&E	A03	RMF1	SI-CA	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	-1818193.802	N/A	N/A	N/A	N/A	N/A	1,962,302.61	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
111	PG&E	A03	RMF1	SI-CA	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	-1677969.6953	N/A	N/A	N/A	N/A	N/A	1,459,712.93	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
112	PG&E	A03	RMF1	SI-CA	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	827216.4914	N/A	N/A	N/A	N/A	N/A	419,558.04	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
113	PG&E	A03	RMF1	SI-CA	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	569554	N/A	472.557	N/A	N/A	N/A	N/A	N/A	275,010.93	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically imported program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
114	PG&E	A03	RMF2	G	MT CO2eq	GHG	Metric	Greenhouse gases (MT CO2eq) Net kWh savings, converted as an annual basis	CO2 equivalent of net annual kWh savings	Residential Sector – Multi-family (RMF)	2016	13,452	N/A	N/A	569,554	3,159	11,762	12,645	16,195	16,830	18,755	20,749	10,072,604	N/A	N/A	Calculated using CET, and reported in the MF segment by dwelling type.	Includes CCSI but not MCE and PNGE as these are not EME segments. For projects regarding Section 202 semi-annual industrial outputs, refer to note in cell 165

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115	PG&E	A04	RMF3	D1a	Lifecycle NET kW	D1: Depth of interventions per building	Metric	Energy savings (kWh, kw, therms) per project (building)	Lifecycle ex-ante kW net per project (building)	Residential Sector – Multi-family (RMF)	2016	-0.15	14.484	123.907	569654	0.04	-0.017	-0.15	-0.15	-0.15	0	-0.15	-0.106	5.633	41.457	Numerator: Total savings claimed for MF retrofit projects Denominator: Number of buildings that have been retrofitted	Savings do not include savings attributed to multi-family customers receiving HomeEnergy Reports, as this metric is focused on projects. "Energy savings" = Lifecycle NET savings Based on conversations with ED and the other PAs, PG&E agrees to assume that project = property for this filing. PG&E projects savings per project to increase by 1.4% year over year.
116	PG&E	A04	RMF3	D1a	Lifecycle NET kWh	D1: Depth of interventions per building	Metric	Energy savings (kWh, kw, therms) per project (building)	Lifecycle ex-ante kWh net per project (building)	Residential Sector – Multi-family (RMF)	2016	165.66	20,426.499	123.907	569654	405.17	126	170	173	175	180	186	705.131	29,232.405	41.457	Numerator: Total savings claimed for MF retrofit projects Denominator: Number of buildings that have been retrofitted	Savings do not include savings attributed to multi-family customers receiving HomeEnergy Reports, as this metric is focused on projects. "Energy savings" = Lifecycle NET savings Based on conversations with ED and the other PAs, PG&E agrees to assume that project = property for this filing. PG&E projects savings per project to increase by 1.4% year over year.
117	PG&E	A04	RMF3	D1a	Lifecycle NET Therms	D1: Depth of interventions per building	Metric	Energy savings (kWh, kw, therms) per project (building)	Lifecycle ex-ante Therm net per project (building)	Residential Sector – Multi-family (RMF)	2016	8.92	1,100.217	123.907	569654	60	22	9.2	9.3	9.4	10	10	28.136	1,166,428.51	41,456.98	Numerator: Total savings claimed for MF retrofit projects Denominator: Number of buildings that have been retrofitted	Savings do not include savings attributed to multi-family customers receiving HomeEnergy Reports, as this metric is focused on projects. "Energy savings" = Lifecycle NET savings Based on conversations with ED and the other PAs, PG&E agrees to assume that project = property for this filing. PG&E projects savings per project to increase by 1.4% year over year.
118	PG&E	A04	RMF3	D4	Lifecycle NET kW	D4: Depth of interventions per property	Metric	Average savings per participant Savings per project (property)	Lifecycle ex-ante kW net per project (property)	Residential Sector – Multi-family (RMF)	2016	0.75	14.484	20.517	569654	4.42	0.493	0.73	0.74	0.75	1	0.79	0.817	5.633	6.898	Numerator : Total savings claimed for MF retrofit projects Denominator : Number of participating properties	Savings do not include savings attributed to multi-family customers receiving HomeEnergy Reports, as this metric is focused on projects. "Energy savings" = Lifecycle NET savings Based on conversations with ED and the other PAs, PG&E agrees to assume that project = property for this filing. PG&E projects savings per project to increase by 1.4% year over year.
119	PG&E	A04	RMF3	D4	Lifecycle NET kWh	D4: Depth of interventions per property	Metric	Average savings per participant Savings per project (property)	Lifecycle ex-ante kWh net per project (property)	Residential Sector – Multi-family (RMF)	2016	995.59	20,426.499	20.517	569.654	2435.07	759	1024	1038	1053	1,082	1121	4,237.84	29,232.405	6,898	Numerator : Total savings claimed for MF retrofit projects Denominator : Number of participating properties	Savings do not include savings attributed to multi-family customers receiving HomeEnergy Reports, as this metric is focused on projects. "Energy savings" = Lifecycle NET savings Based on conversations with ED and the other PAs, PG&E agrees to assume that project = property for this filing. PG&E projects savings per project to increase by 1.4% year over year.
120	PG&E	A04	RMF3	D4	Lifecycle NET Therms	D4: Depth of interventions per property	Metric	Average savings per participant Savings per project (property)	Lifecycle ex-ante Therm net per project (property)	Residential Sector – Multi-family (RMF)	2016	53.62	1,100.217	20.517	569654	360.58	138	55	56	57	58	60	169.067	1,166,429	6,898	Numerator: Total savings claimed for MF retrofit projects Denominator: Number of participating properties	Savings do not include savings attributed to multi-family customers receiving HomeEnergy Reports, as this metric is focused on projects. "Energy savings" = Lifecycle NET savings Based on conversations with ED and the other PAs, PG&E agrees to assume that project = property for this filing. PG&E projects savings per project to increase by 1.4% year over year.
121	PG&E	A04	RMF3	D5	Lifecycle NET kW	D5: Depth of interventions: Per square foot	Metric	Energy savings (kWh, kw, therms) per square foot	Lifecycle ex-ante kW net per square foot	Residential Sector – Multi-family (RMF)	2016	0.002	18.653	9,419,740	569654	0.0004	0.001	0.002	0.0015	0.0026	0	0.0016	0	5.633	5,843,124	Numerator: Total MF savings Denominator: Total number of unique MF premise and account IDs of participants multiplied by the average square footage of MF accounts.	Per ED: "Energy savings" = Lifecycle NET savings. Includes savings attributed to MF customers for Home Energy Reports, as this metric refers to overall MF savings per square foot, instead of projects.
122	PG&E	A04	RMF3	D5	Lifecycle NET kWh	D5: Depth of interventions: Per square foot	Metric	Energy savings (kWh, kw, therms) per square foot	Lifecycle ex-ante kWh net per square foot	Residential Sector – Multi-family (RMF)	2016	4.92	46,330.154	9,419,740	569654	1.2	7.729	5.8	7.6	7.8	9	8.5	5	29,232.405	5,843,124	Numerator: Total MF savings Denominator: Total number of unique MF premise and account IDs of participants multiplied by the average square footage of MF accounts.	Per ED: "Energy savings" = Lifecycle NET savings. Includes savings attributed to MF customers for Home Energy Reports, as this metric refers to overall MF savings per square foot, instead of projects.
123	PG&E	A04	RMF3	D5	Lifecycle NET Therms	D5: Depth of interventions: Per square foot	Metric	Energy savings (kWh, kw, therms) per square foot	Lifecycle ex-ante Therm net per square foot	Residential Sector – Multi-family (RMF)	2016	0.19	1,815.288	9,419,740	569654	0.1	0.741	0.4	0.5	0.5	1	1	0.2	1,166,429	5,843,124	Numerator: Total MF savings Denominator: Total number of unique MF premise and account IDs of participants multiplied by the average square footage of MF accounts.	Per ED: "Energy savings" = Lifecycle NET savings. Includes savings attributed to MF customers for Home Energy Reports, as this metric refers to overall MF savings per square foot, instead of projects.
124	PG&E	A04	RMF4	P1-P	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population (by unit, and property)	Percent of participation relative to eligible population (by property)	Residential Sector – Multi-family (RMF)	2016	0.94%	20.517	2,191,372	569654	0.37%	0.28%	0.95%	0.95%	0.95%	0	1.03%	0.33%	6.898	2,247,459	Numerator: Number of deemed-eligible MF properties Denominator: Total number of unique accounts and premise IDs in the MF segment	Participation is defined as the first instance of participation. PG&E assumes project = participating property for this compliance filing.
125	PG&E	A04	RMF4	P1-U	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population (by unit, and property)	Percent of participation relative to eligible population (by unit)	Residential Sector – Multi-family (RMF)	2016	0.67%	10.340	2,191,372	569654	2.07%	0.19%	0.68%	0.68%	0.68%	0	0.72%	0.29%	6.617	2,247,459	Numerator: Number of deemed-eligible MF units (unique account and premise IDs) Denominator: Total number of unique accounts and premise IDs in the MF segment	Participation is defined as the first instance of participation.

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Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
126	PG&E	A04	RMF4	P2	Percent	P2: Penetration of energy efficiency programs in terms of square feet of eligible population	Metric	Percent of square feet of eligible population participating (by property)	Percent of square feet of eligible population participating (by property)	Residential Sector – Multi-family (RMF)	2016	0.65%	9,415,257	1,447,965,390	569554	2.07%	0.19%	0.66%	0.66%	0.66%	0	0.72%	0.29%	5,843,128	2,046,187,483	Numerator: Square footage of participating MF customers (unique account and premise IDs) Denominator: Square footage of all eligible accounts	
127	PG&E	A04	RMF4	P3: DAC	Percent	P3: Penetration of energy efficiency programs in the eligible market - DAC	Metric	Percent of participation in disadvantaged communities	Percent of participation in disadvantaged communities	Residential Sector – Multi-family (RMF)	2016	1.31%	3,527	268,284	569554	0.00%	-	1.34%	1.34%	1.34%	0	1.45%	0.00%	-	308,668	Numerator: Number of participants in disadvantaged communities (unique account and premise IDs) Denominator: Total number of unique account and premise IDs in disadvantaged communities	DAC customers defined in accordance with D.18-05-041
128	PG&E	A04	RMF4	P4	Percent	P4: Penetration of energy efficiency programs in the HTR market	Metric	Percent of participation by customers defined as "hard-to-reach"	Percent of participation by customers defined as "hard-to-reach"	Residential Sector – Multi-family (RMF)	2016	1.09%	1,875	172,021	569554	0.00%	-	1.11%	1.11%	1.11%	0	1.20%	0.00%	-	221,077	Numerator: Number of HTR MF participants (unique account and premise IDs) Denominator: Total number of MF HTR customers (unique account and premise IDs)	HTR customers defined in accordance with D.18-05-041.
129	PG&E	A04	RMF5	B1	Percent	MF Benchmarking Penetration	Metric	Percent of benchmarked multi-family properties relative to the eligible population	Percent of benchmarked multi-family properties relative to the eligible population	Residential Sector – Multi-family (RMF)	2016	0.02%	503	2,191,372	569554	0.16%	0	0.03%	0.04%	0.05%	0	0.12%	0.23%	5,180	2,247,159	~~Numerator: Total number of multifamily properties benchmarked via Portfolio Manager using PG&E's portal.~~ ~~Denominator: Total number of unique account and premise IDs in PG&E's service area~~	This metric captures properties benchmarked within the calendar year
130	PG&E	A04	RMF5	B6	Percent	Benchmarking of HTR Properties	Metric	Percent of benchmarking by properties defined as "hard-to-reach"	Percent of benchmarking by properties defined as "hard-to-reach"	Residential Sector – Multi-family (RMF)	2016	0.03%	52	172,021	569554	0.06%	0	0.04%	0.05%	0.06%	0	0.08%	0.15%	336	221,077	~~Numerator: Total number of multifamily HTR properties benchmarked via Portfolio Manager using PG&E's portal.~~ ~~Denominator: Total number of unique HTR MF account and premise IDs in PG&E's service area~~	This metric captures properties benchmarked within the calendar year
131	PG&E	A04	RMF6	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Residential Sector – Multi-family (RMF)	2016	$468.00	$8,729,541	18,653	569554	$337.18	1,125	$468.00	$468.00	$468.00	468	$468.00	$952.87	$6,006,687.74	6,304	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
132	PG&E	A04	RMF6	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Residential Sector – Multi-family (RMF)	2016	$0.19	$8,729,541	46,330,154	569554	$0.11	0	$0.19	$0.19	$0.19	0	$0.19	$0.15	$6,006,687.74	39,030,569	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
133	PG&E	A04	RMF6	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Residential Sector – Multi-family (RMF)	2016	$1.04	$1,896,893	1,815,288	569554	$0.68	1	$1.04	$1.04	$1.04	1	$1.04	$0.50	$1,197,780.18	2,405,218	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
134	PG&E	A04	RMF6	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Residential Sector – Multi-family (RMF)	2016	$478.34	$8,922,425	18,653	569554	$544.44	1,369	$478.34	$478.34	$478.34	478	$478.34	$1,197.00	$7,545,634.72	6,304	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
135	PG&E	A04	RMF6	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Residential Sector – Multi-family (RMF)	2016	$0.19	$8,922,425	46,330,154	569554	$0.17	0	$0.19	$0.19	$0.19	0	$0.19	$0.19	$7,545,634.72	39,030,569	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
136	PG&E	A04	RMF6	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Residential Sector – Multi-family (RMF)	2016	$1.07	$1,938,805	1,815,288	569554	$1.10	1.804708234	$1.07	$1.07	$1.07	1	$1.07	$0.63	$1,504,658.16	2,405,218	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
137	PG&E	A04	RMF7i	EI2	Btu	Energy Intensity per MF unit	Indicator	Average energy use intensity of multifamily units. including in-unit accounts)	Average electric and gas usage per unit	Residential Sector – Multi-family (RMF)	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	2,046,187,483	Numerator: Total MF energy use from PG&E database (gas + electric) Denominator: Total units in MF segment	
138	PG&E	A04	RMF7i	EI3	Btu	Energy Intensity per MF unit square foot	Indicator	Average energy use intensity of multifamily buildings (average usage per square foot – not adjusted	Average electric and gas usage per square foot	Residential Sector – Multi-family (RMF)	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	2,046,187,483	Numerator: Total MF energy use from PG&E database (gas + electric) Denominator: Total number of MF units multiplied by the average square footage of MF units	
139	PG&E	A05	C1	S1	kW	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW gross	Commercial Sector (C)	2016	34,271	N/A	N/A	569,554	27,107	34090.16308	29,466	31,347	28,985	37,436	41,653	14,684	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
140	PG&E	A05	C1	S1	kW	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW net	Commercial Sector (C)	2016	25,531	N/A	N/A	569,554	20,048	27010.45012	20,407	21,913	20,023	26,180	29,120	11,772	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None

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2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year
141	PG&E	A05	C1	S1	kWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh gross	Commercial Sector (C)	2016
142	PG&E	A05	C1	S1	kWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh net	Commercial Sector (C)	2016
143	PG&E	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm gross	Commercial Sector (C)	2016
144	PG&E	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm net	Commercial Sector (C)	2016
145	PG&E	A05	C1	S1	kW	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW gross	Commercial Sector (C)	2016
146	PG&E	A05	C1	S1	kW	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW net	Commercial Sector (C)	2016
147	PG&E	A05	C1	S1	kWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh gross	Commercial Sector (C)	2016
148	PG&E	A05	C1	S1	kWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh net	Commercial Sector (C)	2016
149	PG&E	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm gross	Commercial Sector (C)	2016
150	PG&E	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm net	Commercial Sector (C)	2016
151	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual kW gross	Commercial Sector (C)	2016
152	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual kW net	Commercial Sector (C)	2016
153	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual kWh gross	Commercial Sector (C)	2016
154	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual kWh net	Commercial Sector (C)	2016

Index	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
141	190,599,356	N/A	N/A	569,554	149,196,886	163651542.6	153,423,399	162,781,870	156,207,078	192,712,022	213,174,618	94,298,859	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
142	144,632,910	N/A	N/A	569,554	110,948,791	129596795.6	108,633,838	116,126,760	111,005,104	138,379,541	153,068,910	78,693,076	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
143	4,145,597	N/A	N/A	569,554	4,649,260	3378050.338	2,576,502	2,957,256	2,769,529	3,664,601	4,045,123	4,477,626	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
144	3,012,184	N/A	N/A	569,554	3,065,209	2194588.981	2,128,205	2,417,300	2,309,165	3,043,834	3,401,486	2,823,523	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
145	368,217	N/A	N/A	569,554	298,180	377692.0358	315,604	335,750	310,446	400,969	446,129	163,630	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
146	277,525	N/A	N/A	569,554	225,052	303287.448	235,117	250,125	231,274	298,711	332,354	123,402	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
147	1,995,793,417	N/A	N/A	569,554	1,571,861,994	1733001735	1,597,065,392	1,694,482,665	1,626,042,175	2,006,041,463	2,219,047,467	780,591,318	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
148	1,514,448,618	N/A	N/A	569,554	1,192,740,528	1,394,579,381	1,211,904,489	1,285,827,843	1,233,893,002	1,522,248,661	1,683,884,454	641,729,274	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
149	48,791,469	N/A	N/A	569,554	61,335,086	46,131,660	30,324,061	34,805,324	32,595,882	43,130,398	47,608,938	48,473,641	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
150	34,617,563	N/A	N/A	569,554	39,440,876	29,103,871	22,033,413	25,289,492	23,684,115	31,338,476	34,592,577	31,343,815	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
151	0.25%	34,271	13,673,625	569554	0.21%	0	0.21%	0.23%	0.21%	0	0.30%	0.15%	14,684	9,928,976	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
152	0.19%	25,531	13,673,625	569554	0.15%	0	0.15%	0.16%	0.15%	0	0.21%	0.12%	11,772	9,928,976	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
153	0.56%	190,599,356	############	569554	0.48%	0	0.44%	0.47%	0.45%	0	0.62%	0.41%	94,298,859	23,261,361,113	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
154	0.42%	144,632,910	############	569554	0.36%	0	0.31%	0.34%	0.32%	0	0.44%	0.34%	78,693,076	23,261,361,113	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None

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Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
155	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual Therm gross	Commercial Sector (C)	2016	0.38%	4.145.597	1.103.845.444	569554	0.49%	0	0.23%	0.27%	0.25%	0	0.37%	0.52%	4.477.626	864.280.604	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
156	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual Therm net	Commercial Sector (C)	2016	0.27%	3.012.184	1.103.845.444	569554	0.32%	0	0.19%	0.22%	0.21%	0	0.31%	0.33%	2.823.523	864.280.604	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
157	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kW gross	Commercial Sector (C)	2016	2.69%	368.217	13.673.625	569554	2.27%	0	2.28%	2.43%	2.25%	0	3.23%	1.65%	163.630	9.928.976	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
158	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kW net	Commercial Sector (C)	2016	2.03%	277.525	13.673.625	569554	1.71%	0	1.70%	1.81%	1.68%	0	2.41%	1.24%	123.402	9.928.976	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
159	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kWh gross	Commercial Sector (C)	2016	5.82%	1.995.793.417	##############	569554	5.07%	0	4.62%	4.90%	4.71%	0	6.45%	3.36%	780.591.318	23.261.361.113	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
160	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kWh net	Commercial Sector (C)	2016	4.42%	1.514.448.618	##############	569554	3.85%	0.045311288	3.51%	3.72%	3.58%	0	4.89%	2.76%	641.729.274	23.261.361.113	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
161	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante Therm gross	Commercial Sector (C)	2016	4.42%	48.791.469	1.103.845.444	569554	6.48%	0	2.73%	3.13%	2.95%	0	4.31%	5.61%	48.473.641	864.280.604	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
162	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante Therm net	Commercial Sector (C)	2016	3.14%	34.617.563	1.103.845.444	569554	4.16%	0	1.98%	2.28%	2.14%	0	3.13%	3.63%	31.343.815	864.280.604	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Mid" scenario from the 2018 Potential and Goals Study)	None
163	PG&E	A05	C2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Commercial Sector (C)	2016	69.481	N/A	N/A	569.554	12.098	42.802	52.187	55.787	53.326	66,477	73.534	22.625	N/A	N/A	Calculated using CET, and reported by sector consistent with primary sector groupings in CEDARS PROGRAM specification.	Includes CO2 (in metric tons) but not NOX and PM10 as these are not GHG equivalents. For details regarding electric C02 emissions reduction values, refer to note in cell AA5
164	PG&E	A05	C3	D2	Percent	D2: Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption	Percent lifecycle gross kW	Commercial Sector (C)	2016	N/A	N/A	N/A	569554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	163.630	N/A	Did not calculate as Attachment A states: "Energy savings (gross kWh, therms) as a fraction of total project consumption. Does not include gross kW.	None
165	PG&E	A05	C3	D2	Percent	D2: Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption	Percent lifecycle gross kWh	Commercial Sector (C)	2016	30.40%	1.995.793.417	6.573.147.090	569554	44.40%	14%	30.40%	30.40%	31.00%	0	31.90%	29.98%	780.591.318	2.604.070.777	Numerator: Energy savings claimed for commercial projects, consistent with CEDARS PROGRAM classification Denominator: Energy usage baseline on application, against which project savings is calculated.	"Project" is defined as "per application"
166	PG&E	A05	C3	D2	Percent	D2: Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption	Percent lifecycle gross Therms	Commercial Sector (C)	2016	128%	48.791.469	38.172.471	569554	261%	115%	128%	128%	130%	1	134%	235.90%	48.473.641	20.548.795	Numerator: Energy savings claimed for commercial projects, consistent with CEDARS PROGRAM classification Denominator: Energy usage baseline on application, against which project savings is calculated	"Project" is defined as "per application"
167	PG&E	A05	C4	P1L	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for large customers	Commercial Sector (C)	2016	17.49%	2.058	11.768	569554	10.11%	0	17.49%	17.49%	18.36%	0	19.24%	6.20%	470	7.580	Numerator: Number of participating large customers (defined by unique combination of account and premise ID) Denominator: Total number of large customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Large customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.
168	PG&E	A05	C4	P1M	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for medium customers	Commercial Sector (C)	2016	7.24%	8.257	114.023	569554	4.29%	0	7.24%	7.24%	7.60%	0	7.97%	0.98%	894	91.253	Numerator: Number of participating medium customers (defined by unique combination of account and premise ID) Denominator: Total number of medium customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Medium customers are defined as those who use between 40,000-500,000kWh or 10,000-250,000 therms annually.
169	PG&E	A05	C4	P1S	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for small customers	Commercial Sector (C)	2016	1.39%	6.685	479.282	569554	0.69%	0	5.00%	5.00%	5.00%	0	5.00%	0.16%	679	426.582	Numerator: Number of participating small customers (defined by unique combination of account and premise ID) Denominator: Total number of small customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Small customers are defined as those who use less than 40,000 kWh or 10,000 therms annually. Targets are set at 5% in compliance with D.18-05-041. The methodology for capturing participation is still to be determined.
170	PG&E	A05	C4	P2	Percent	P2: Penetration of energy efficiency programs in terms of square feet of eligible population	Metric	Percent of square feet of eligible population	Percent of square feet of eligible population	Commercial Sector (C)	2016	2.81%	55.345.434	1.969.884.000	569554	1.55%	0	5.67%	5.67%	5.75%	0	5.84%	0.39%	6.651.219	1.710.548.317	Numerator: square footage of participating service commercial customers Denominator: square footage of the commercial sector	PG&E does not currently collect square footage data from participants. The numerator for this metric multiplies the number of commercial sector participants by the average square footage of commercial buildings in PG&E's service territory. This was derived by dividing the total commercial square footage in PG&E's service area from CEUS by PG&E's best current estimate for the number of buildings in its service area (unique account and premise ID). This numerator was then divided by the total square footage of commercial buildings in PG&E's service area from CEUS. Targets increase in accordance with participation targets.
171	PG&E	A05	C4	P4	Percent	P4: Penetration of energy efficiency programs in the HTR market	Metric	Percent of participation by customers defined as "hard-to-reach"	Percent of participation by customers defined as "hard-to-reach"	Commercial Sector (C)	2016	2.60%	6.747	258.934	569554	0.50%	-	2.70%	2.80%	3.00%	0	3.50%	0.00%	-	214.512	Numerator: Number of commercial HTR participants (unique account and premise ID) Denominator: Total number of HTR commercial customers (unique account and premise ID)	HTR customers defined in accordance with D.18-05-041.
172	PG&E	A05	C5	B2	Percent	Square Footage of Commercial Benchmarking Penetration	Metric	Percent of benchmarked square feet of eligible population	Percent of benchmarked square feet of eligible population	Commercial Sector (C)	2016	4.63%	91.209.156	1.969.884.000	569554	91.08%	103.11%	6.67%	8.00%	9.60%	0	11.65%	125.17%	2.141.016.244	1.710.548.317	Numerator: Total square footage of benchmarked commercial buildings in Portfolio Manager using PG&E portal Denominator: Total square footage of commercial sector	This metric includes buildings benchmarked within the calendar year
173	PG&E	A05	C5	B5L	Percent	Benchmarking Penetration for Commercial Sector	Metric	Percent of benchmarked customers relative to eligible population for large customers	Percent of benchmarked customers relative to eligible population for large customers	Commercial Sector (C)	2016	3.53%	415	11.768	569554	20.36%	0	5.08%	6.10%	7.32%	0	8.88%	19.63%	1.488	7.580	Numerator: Number of large commercial customers that benchmarked on Portfolio Manager using PG&E portal Denominator: Total number of large commercial customers (unique account and premise ID)	Large customers are defined consistent with criteria approved in PG&E's Business Plan. Specifically, large customers use more than 500,000 kWh or 250,000 therms per year. This metric includes customers benchmarked within the calendar year.
174	PG&E	A05	C5	B5M	Percent	Benchmarking Penetration for Commercial Sector	Metric	Percent of benchmarked customers relative to eligible population for medium customers	Percent of benchmarked customers relative to eligible population for medium customers	Commercial Sector (C)	2016	0.56%	642	114.023	569554	4.23%	0	0.81%	0.97%	1.16%	0	1.41%	4.62%	4.217	91.253	Numerator: Number of medium commercial customers that benchmarked on Portfolio Manager using PG&E portal Denominator: Total number of medium commercial customers (unique account and premise ID)	Medium customers are defined consistent with criteria approved in PG&E's Business Plan. Specifically, medium customers use between 40,000-500,000 kWh or 10,000-250,000 therms per year. This metric includes customers benchmarked within the calendar year.
175	PG&E	A05	C5	B5S	Percent	Benchmarking Penetration for Commercial Sector	Metric	Percent of benchmarked customers relative to eligible population for small customers	Percent of benchmarked customers relative to eligible population for small customers	Commercial Sector (C)	2016	0.10%	481	479.282	569554	0.87%	0	0.14%	0.17%	0.21%	0	0.25%	1.75%	7.478	426.582	Numerator: Number of small commercial customers that benchmarked on Portfolio Manager using PG&E portal Denominator: Total number of small commercial customers (unique account and premise ID)	Small customers are defined consistent with criteria approved in PG&E's Business Plan. Specifically, small customers use less than 40,000 kWh or 10,000 therms per year. This metric includes customers benchmarked within the calendar year.
176	PG&E	A05	C5	B6	Percent	Benchmarking of HTR Properties	Metric	Percent of benchmarking by customers defined as "hard-to-reach"	Percent of benchmarking by customers defined as "hard-to-reach"	Commercial Sector (C)	2016	0.18%	457	258.934	569554	1.02%	0	0.25%	0.30%	0.37%	0	0.44%	1.29%	2.760	214.512	Numerator: number of commercial HTR customers that bencharmed on Portfolio Manager using PG&E portal Denominator: total number of commercial HTR customers (unique account and premise ID)	HTR customers defined based on D.18-05-041. This metric captures customers benchmarked within the calendar year.
177	PG&E	A05	C6	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Commercial Sector (C)	2016	$381.92	$105.993.527	277.525	569554	$255.73	191	$381.92	$381.92	$381.92	344	$343.73	$288.58	$35.610.820.08	123.402	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
178	PG&E	A05	C6	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Commercial Sector (C)	2016	$0.07	$105.993.527	1.514.448.618	569554	$0.05	0	$0.07	$0.07	$0.07	0	$0.06	$0.06	$35.610.820.08	641.729.274	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
179	PG&E	A05	C6	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Commercial Sector (C)	2016	$0.47	$16.294.214	34.617.563	569554	$0.51	0	$0.47	$0.47	$0.47	0	$0.42	$0.23	$7.101.074.07	31.343.815	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
180	PG&E	A05	C6	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Commercial Sector (C)	2016	$682.49	$189.406.526	277.525	569554	$461.94	426.0880262	$682.49	$682.49	$682.49	614	$614.24	$949.91	117.220.371	123.402	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
181	PG&E	A05	C6	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Commercial Sector (C)	2016	$0.13	$189.406.526	1.514.448.618	569554	$0.09	0.09266389	$0.13	$0.13	$0.13	0	$0.11	$0.18	117.220.371	641.729.274	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
182	PG&E	A05	C6	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Commercial Sector (C)	2016	$0.84	$29.117.161	34.617.563	569554	$0.92	0.930863332	$0.84	$0.84	$0.84	1	$0.76	$0.75	23.374.652	31.343.815	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
183	PG&E	A06	C7i	N1	Percent	NMEC	Indicator	Fraction of total projects utilizing Normalized Metered Energy Consumption (NMEC) to estimate savings	Percent of total projects utilizing Normalized Metered Energy Consumption (NMEC) to estimate savings	Commercial Sector (C)	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Per CAEECC meeting : "Fraction of total custom projects utilizing NMEC to estimate savings".••••Data from CMPA (Custom Measure and Project Archive)	
184	PG&E	A06	C7i	N2	Percent	NMEC	Indicator	Fraction of total savings (gross kWh and therm) derived from NMEC analysis	Percent of total savings (gross kWh and therm) derived from NMEC analysis	Commercial Sector (C)	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Per CAEECC Meeting: "Fraction of total custom savings derived from NMEC analysis".••••Data from CMPA.	

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 17: Metrics Compliance Filing
2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	Attb Page	Attb Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Attb A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (YR+4 Target)	Short Term Annual Targets (YR+4 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (YR5+/-MOE)	Long Term Annual Target (YR10+/-MOE)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
185	PG&E	A06	C8I	CS	Percent	Satisfaction	Indicator	Improvement in customer satisfaction	Percent improvement in customer satisfaction	Commercial Sector (C)	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Per CARECC Meeting: MRB will develop and field a consistent survey instrument annually.	
186	PG&E	A06	C8I	TS	Percent	Satisfaction	Indicator	Improvement in trade ally satisfaction	Percent improvement in trade ally satisfaction	Commercial Sector (C)	N/A	4.39%	N/A - Indicator	N/A - Indicator	569554	3.55%	-0.06573791	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	-28.47%	-1.25	4.39	Per CARECC Meeting: MRB will develop and field a consistent survey instrument annually.	Numerator = (Current Year Percentage - Baseline Year Percentage. Denominator = Baseline Year Percentage.
187	PG&E	A06	C9I	F1	Percent	Investment in EE	Indicator	Fraction of total investments made by ratepayers and private capital	Percent of total investments made by ratepayers and private capital	Commercial Sector (C)	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Per CARECC meetings and RD: Numerator: Total investment amounts Denominator: Total amount used	
188	PG&E	A06	P1	S1	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	First year annual kW gross	Public Sector (P)	2016	11,281	N/A	N/A	569,554	6,208	7835.504016	9,696	10,033	9,540	12,223	13,711	2,983.77	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None
189	PG&E	A06	P1	S1	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	First year annual kW net	Public Sector (P)	2016	8,455	N/A	N/A	569,554	4,809	6836.73206	6,823	7,024	6,676	8,727	9,707	2,745.62	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None
190	PG&E	A06	P1	S1	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	First year annual kWh gross	Public Sector (P)	2016	62,037,732	N/A	N/A	569,554	57,477,674	50972596.47	49,937,418	52,983,688	50,843,475	62,725,378	69,285,703	24,592,607.67	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None
191	PG&E	A06	P1	S1	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	First year annual kWh net	Public Sector (P)	2016	46,860,765	N/A	N/A	569,554	45,054,858	50057459.26	36,261,279	38,708,920	37,091,709	46,326,514	51,022,970	23,127,766.66	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None
192	PG&E	A06	P1	S1	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	First year annual Therm gross	Public Sector (P)	2016	-72,273	N/A	N/A	569,554	42,096	27659.8287	-56,520	-57,885	-54,304	71,855	-79,316	676,974.62	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None
193	PG&E	A06	P1	S1	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	First year annual Therm net	Public Sector (P)	2016	-35,127	N/A	N/A	569,554	47,098	5,932	-43,730	-47,398	-45,278	59,683	-66,696	510,461.01	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None
194	PG&E	A06	P1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	Lifecycle ex-ante kW gross	Public Sector (P)	2016	92,915	N/A	N/A	569,554	62,660	69,831	105,201	111,917	102,482	133,656	148,730	97,576.15	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None
195	PG&E	A06	P1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	Lifecycle ex-ante kW net	Public Sector (P)	2016	69,189	N/A	N/A	569,554	48,627	62,227	78,272	83,375	77,096	99,570	110,785	32,582.03	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None
196	PG&E	A06	P1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	Lifecycle ex-ante kWh gross	Public Sector (P)	2016	594,051,250	N/A	N/A	569,554	515,329,930	577,379,541	532,365,135	568,827,555	562,014,058	648,680,489	739,682,489	158,438,984.83	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None
197	PG&E	A06	P1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	Lifecycle ex-ante kWh net	Public Sector (P)	2016	451,512,584	N/A	N/A	569,554	403,263,936	520,561,406	403,968,163	428,609,281	411,297,647	507,416,220	561,294,918	146,012,616.08	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-021.	None

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 17: Metrics Compliance Filing
2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year
198	PG&E	A06	P1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante Therm gross	Public Sector (P)	2016
199	PG&E	A06	P1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante Therm net	Public Sector (P)	2016
200	PG&E	A06	P2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) based on net lifecycle kWh and Therms savings, reported on an annual basis, incorporating average fuel/technology mix	CO2-equivalent of net annual kWh savings	Public Sector (P)	2016
201	PG&E	A06	P3i	D3b	Percent annual NET kW	D3: Depth of interventions per building	Indicator	Average percent energy savings (kWh, kw, therms) per project building or facility	Percent annual net kW per project building or facility	Public Sector (P)	N/A
202	PG&E	A06	P3i	D3b	Percent annual NET kWh	D3: Depth of interventions per building	Indicator	Average percent energy savings (kWh, kw, therms) per project building or facility	Percent annual net kWh per project building or facility	Public Sector (P)	N/A
203	PG&E	A06	P3i	D3b	Percent annual NET Therms	D3: Depth of interventions per building	Indicator	Average percent energy savings (kWh, kw, therms) per project building or facility	Percent annual net Therms per project building or facility	Public Sector (P)	N/A
204	PG&E	A06	P3i	D5	Annual NET kW	D5: Depth of interventions: Per square foot	Indicator	Average annual energy savings (kWh, kw, therms) per project building floor plan area	Average annual net kw savings per project building floor plan area	Public Sector (P)	N/A
205	PG&E	A06	P3i	D5	Annual NET kWh	D5: Depth of interventions: Per square foot	Indicator	Average annual energy savings (kWh, kw, therms) per project building floor plan area	Average annual net kw savings per project building floor plan area	Public Sector (P)	N/A
206	PG&E	A06	P3i	D5	Annual NET Therms	D5: Depth of interventions: Per square foot	Indicator	Average annual energy savings (kWh, kw, therms) per project building floor plan area	Average annual net Therm savings per project building floor plan area	Public Sector (P)	N/A
207	PG&E	A06	P3i	W1	Annual NET kW	Water	Indicator	Average annual energy savings (kWh, kW therms) per annual flow through project water/wastewater facilities	Average annual Net kW savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A
208	PG&E	A06	P3i	W1	Annual NET kWh	Water	Indicator	Average annual energy savings (kWh, kW therms) per annual flow through project water/wastewater facilities	Average annual Net kWh savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A
209	PG&E	A06	P3i	W1	Annual NET Therms	Water	Indicator	Average annual energy savings (kWh, kW therms) per annual flow through project water/wastewater facilities	Average annual Net Therms savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A
210	PG&E	A07	P4	P1	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)	2016
211	PG&E	A07	P4i	P2	Percent	P2: Penetration of energy efficiency programs in terms of square feet of eligible population	Indicator	Percent of estimated floorplan area (i.e., ft2) of all Public Sector buildings participating in building projects—estimate within +/-15% of sector-wide building area, +/-5% of project building area	Percent of estimated floorplan area (i.e., ft2) of all Public Sector buildings participating in building projects	Public Sector (P)	N/A
212	PG&E	A07	P4i	W2	Percent	Water	Indicator	Percent of Public Sector water/wastewater flow (i.e., annual average Million Gallons per Day) enrolled in non-building water/wastewater programs—estimate within +/-20% of flow through eligible facilities (treatment facilities pumping stations), +/-10% of flow through project facilities	Percent of Public Sector water/wastewater flow enrolled in non-building water/wastewater programs	Public Sector (P)	N/A
213	PG&E	A07	P5	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Public Sector (P)	2016
214	PG&E	A07	P5	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Public Sector (P)	2016
215	PG&E	A07	P5	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Public Sector (P)	2016
216	PG&E	A07	P5	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Public Sector (P)	2016
217	PG&E	A07	P5	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Public Sector (P)	2016
218	PG&E	A07	P5	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Public Sector (P)	2016
219	PG&E	A07	P6i	F2	$	Investment in EE	Indicator	Total program-backed financing distributed to Public Sector customers requiring repayment (i.e., loans, OBF)	Total program-backed financing distributed to Public Sector customers requiring repayment	Public Sector (P)	N/A
220	PG&E	A07	P7	B3	Percent	Public Sector Benchmarking Penetration Calendar Year	Metric	Percent of Public Sector buildings with current benchmark	Percent of Public Sector buildings with current benchmark	Public Sector (P)	2016
221	PG&E	A07	P7	EI4	Btu	Energy intensity per public sector building	Metric	Average energy use intensity of all Public Sector buildings	Average energy use intensity of all Public Sector buildings	Public Sector (P)	2016
222	PG&E	A07	P7i	B4	Percent	Public Sector Square Foot Benchmarking Penetration in Calendar Year	Indicator	Percent of floorplan area of all Public Sector buildings with current benchmark	Percent of floorplan area of all Public Sector buildings with current benchmark	Public Sector (P)	2016
223	PG&E	A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual kW gross	Industrial (I)	2016
224	PG&E	A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual kW net	Industrial (I)	2016
225	PG&E	A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual kWh gross	Industrial (I)	2016
226	PG&E	A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual kWh net	Industrial (I)	2016
227	PG&E	A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual Therm gross	Industrial (I)	2016
228	PG&E	A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual Therm net	Industrial (I)	2016
229	PG&E	A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante kW gross	Industrial (I)	2016
230	PG&E	A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante kW net	Industrial (I)	2016
231	PG&E	A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante kWh gross	Industrial (I)	2016
232	PG&E	A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante kWh net	Industrial (I)	2016
233	PG&E	A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante Therm gross	Industrial (I)	2016
234	PG&E	A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante Therm net	Industrial (I)	2016
235	PG&E	A08	In2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Industrial (I)	2016
236	PG&E	A08	In3	P1L	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for large customers	Industrial (I)	2016
237	PG&E	A08	In3	P1M	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for medium customers	Industrial (I)	2016
238	PG&E	A08	In3	P1S	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for small customers	Industrial (I)	2016
239	PG&E	A08	In4i	P5L	Percent	New participation	Indicator	Percent of customers participating that have not received an incentive for the past three years, annually, by small, medium and large customer categories	Percent of large customers participating in reporting year that have not received an incentive for the past three years	Industrial (I)	N/A
240	PG&E	A08	In4i	P5M	Percent	New participation	Indicator	Percent of customers participating that have not received an incentive for the past three years, annually, by small, medium and large customer categories	Percent of medium customers participating in reporting year that have not received an incentive for the past three years	Industrial (I)	N/A

Index	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
198	-216,569	N/A	N/A	569,554	115,545	231,355	-594,589	-682,457	-639,135	- 845,694	-933,509	8,354,410.76	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
199	-125,588	N/A	N/A	569,554	204,929	70,688	-432,028	-495,872	-464,394	- 614,480	-678,286	6,979,160.18	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
200	20,726	N/A	N/A	569,554	4,160	22,630	15,962	17,053	16,301	20,309	22,462	7,411.33	N/A	N/A	Calculated using CET, and reported by sector consistent with primary sector groupings in CEDARS PROGRAM specification.	Includes CO2 but not NOX and PM10 as these are not GHGs. For details regarding electric C02 emissions reduction values, refer to note in cell AA5
201	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	937	Numerator - Total savings claimed for MF retrofit projects Denominator - Number of participating properties	
202	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	937	Numerator - Total savings claimed for MF retrofit projects Denominator - Number of participating properties	
203	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	937	Numerator - Total savings claimed for MF retrofit projects Denominator - Number of participating properties	
204	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total downstream savings Denominator Total number of service accounts participating. x average square footage of property	
205	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total downstream savings Denominator: Total number of service accounts participating. x average square footage of property	
206	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numeartor: Total downstream savings Denominator: Total number of service accounts participating. x average square footage of property	
207	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: claimed savings from water/wastewater customers Denominator: Baseline energy usage as reported on project applications	
208	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: claimed savings from water/wastewater customers Denominator: Baseline energy usage as reported on project applications	
209	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: claimed savings from water/wastewater customers Denominator: Baseline energy usage as reported on project applications	
210	0.82%	628	76,418	569554	2.54%	0.040237645	0.84%	0.84%	0.84%	0	0.90%	1.54%	938	60,920	Numerator: Number of public sector unique account and premise IDs that participated in an EE program Denominator: total number of unique account and premise IDs in the public sector	Participation is defined as the first instance of participation. Public sector customers are defined by NAICS codes.
211	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: square footage of participating unique account and premise IDs Denominator: Square footage of all unique public sector premise and account IDs times average number of buildings per account	
212	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	As reported by water/wastewater treatment facilities' pumping stations that respond to survey	
213	$906.05	$62,824,972	69,339	569554	$965.48	653.1244235	$906.05	$906.05	$906.05	815	$770.15	$541.80	$17,653,744.78	32,583	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
214	$0.14	$62,824,972	451,512,594	569554	$0.12	0.078073293	$0.14	$0.14	$0.14	0	$0.12	$0.12	$17,653,744.78	146,012,616	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
215	($0.26)	($32,123)	125,588	569554	$0.25	-2	($0.26)	($0.26)	($0.26)	- 0	($0.26)	$0.50	$3,520,293.81	6,979,160	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
216	$1,180.36	$81,844,862	69,339	569554	$1,402.16	994	$1,180.36	$1,180.36	$1,180.36	1,062	$1,003.30	$1,034.79	$33,716,981.78	32,583	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
217	$0.18	$81,844,862	451,512,594	569554	$0.17	0	$0.18	$0.18	$0.18	0	$0.15	$0.23	$33,716,981.78	146,012,616	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
218	($0.33)	($41,849)	125,588	569554	$0.37	-3	($0.33)	($0.33)	($0.33)	- 0	($0.33)	$0.96	$6,723,428.01	6,979,160	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
219	$6,410,202.00	N/A - Indicator	N/A - Indicator	$569,554.00	N/A - Indicator	17,170,856	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	$31,790,213.63	N/A	N/A	Total amount loaned through PA programs	"Total program backed financing...requiring repayment" = total loan amount
220	0.62%	472	76,418	569554	4.77%	0	0.89%	1.07%	1.28%	0	1.55%	4.14%	2,523	60,920	Numerator: Number of public sector buildings benchmarked on Portfolio Manager using PG&E portal Denominator: total number of public sector unique account and premise IDs	This metric includes buildings benchmarked within the calendar year
221	547,307,882	##############	76,418	569,554	223,052,888	195,331,421	547,307,882	547,307,882	547,307,882	536,361,725	519,942,488.18	187,201,159	################	60,920	Numerator: Total sector-level energy use from PG&E database (gas + electric) Denominator: Number of unique public sector account and premise IDs	
222	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total square footage of public buildings benchmarked within calendar year, in Portfolio Manager Denominator: Total square footage of all benchmarked public sector buildings	This metric includes buildings benchmarked within the calendar year
223	10,546	N/A	N/A	569,554	3,508	1,955	15,760	16,113	16,284	14,422	11,046	3,909	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
224	7,653	N/A	N/A	569,554	2,889	1,325	11,675	11,891	12,021	11,071	9,357	3,241	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
225	48,200,588	N/A	N/A	569,554	28,870,444	22,553,180	113,151,759	110,069,014	107,052,877	89,234,286	66,704,019	38,145,541	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
226	37,054,341	N/A	N/A	569,554	23,940,384	18,362,190	81,640,261	79,450,954	77,541,577	67,209,198	55,191,766	32,835,520	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
227	3,038,179	N/A	N/A	569,554	4,446,419	8,219,935	4,536,165	4,680,459	4,911,927	7,999,364	9,266,394	7,892,627	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
228	2,127,794	N/A	N/A	569,554	3,360,101	5,425,296	4,317,835	4,449,805	4,647,312	6,708,125	7,701,714	4,859,164	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
229	75,129	N/A	N/A	569,554	44,133	25,149	112,273	114,790	116,006	102,739	78,689	30,704	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
230	53,710	N/A	N/A	569,554	36,811	16,999	81,474	83,300	84,183	74,555	57,103	22,018	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
231	429,138,678	N/A	N/A	569,554	359,744,550	218,201,027	1,007,410,869	979,964,629	953,111,406	794,469,219	593,878,118	277,974,465	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
232	317,604,109	N/A	N/A	569,554	301,762,052	163,089,411	774,450,010	753,350,634	732,707,141	610,750,503	456,545,516	221,636,241	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
233	42,101,250	N/A	N/A	569,554	37,374,939	66,254,250	62,859,441	64,858,972	68,066,515	110,850,361	128,408,086	34,556,085	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
234	29,338,609	N/A	N/A	569,554	29,355,687	43,322,786	44,023,720	45,424,095	47,670,503	77,634,245	89,930,829	22,213,031	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
235	17,163	N/A	N/A	569,554	2,582	8,540	37,815	36,800	35,916	31,130	25,564	10,722	N/A	N/A	Calculated using CET, and reported by sector consistent with primary sector groupings in CEDARS PROGRAM specification.	Includes CO2 but not NOX and PM10 as these are not GHG equivalents. For details regarding electric CO2 emissions reduction values, refer to note in cell AA5
236	6.86%	170	2,478	569554	5.73%	0.030683403	7.55%	7.55%	7.55%	0	7.07%	1.32%	45	3,407	Numerator: Number of participating large customers (defined by unique combination of account and premise ID) Denominator: Total number of large customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Large customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.
237	2.57%	299	11,628	569554	2.43%	0.003616637	2.83%	2.83%	2.83%	0	2.65%	0.08%	12	14,298	Numerator: Number of participating medium customers (defined by unique combination of account and premise ID) Denominator: Total number of medium customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Medium customers are defined as those who use between 40,000-500,000kWh or 10,000-250,000 therms annually.
238	0.61%	302	49,281	569554	0.44%	0.000263726	0.67%	0.67%	0.67%	0	0.63%	0.01%	6	77,235	Numerator: Number of participating small customers (defined by unique combination of account and premise ID) Denominator: Total number of small customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Small customers are defined as those who use less than 40,000 kWh or 10,000 therms annually.
239	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	3,407	Numerator: Annual number of large industrial participants (by service account) that have not received an incentive for the past 3 years Denominator: Total number of unique large industrial account and premise IDs in the sector	Large customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.
240	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	14,298	Numerator: Annual number of medium industrial participants (by service account) that have not received an incentive for the past 3 years Denominator: Total number of unique medium industrial account and premise IDs in the sector	Medium customers are defined as those who use between 40,000-500,000kWh or 10,000-250,000 therms annually.

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 17: Metrics Compliance Filing
2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
241	PG&E	A08	In4i	P5S	Percent	New participation	Indicator	Percent of customers participating that have not received an incentive for the past three years, annually, by small, medium and large customer categories	Percent of small customers participating in reporting year that have not received an incentive for the past three years	Industrial (I)	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	77,235	Numerator: Annual number of small industrial participants (by service account) that have not received an incentive for the past 3 years Denominator: Total number of unique small industrial account and premise IDs in the sector	Small customers are defined as those who use less than 40,000 kWh or 10,000 therms annually.
242	PG&E	A08	In5	LC	$/kW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Industrial (I)	2016	$296.84	$15.943.141	53.710	569554	$262.65	341.3310373	$296.84	$296.84	$296.84	282	$281.99	$732.77	$16.133.787.64	22.018	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
243	PG&E	A08	In5	LC	$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Industrial (I)	2016	$0.05	$15.943.141	317.604.109	569554	$0.03	0.035576376	$0.05	$0.05	$0.05	0	$0.05	$0.07	$16.133.787.64	221.636.241	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
244	PG&E	A08	In5	LC	$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Industrial (I)	2016	$0.37	$10.797.104	29.338.609	569554	$0.39	0.432301835	$0.37	$0.37	$0.37	0	$0.35	$0.15	$3.304.510.72	22.213.031	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
245	PG&E	A08	In5	LC	$/kW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Industrial (I)	2016	$472.94	$25.401.923	53.710	569554	$379.55	451.7730227	$472.94	$472.94	$472.94	449	$449.30	$1.025.55	$22.580.034.64	22.018	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
246	PG&E	A08	In5	LC	$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Industrial (I)	2016	$0.08	$25.401.923	317.604.109	569554	$0.05	0.047087564	$0.08	$0.08	$0.08	0	$0.08	$0.10	$22.580.034.64	221.636.241	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
247	PG&E	A08	In5	LC	$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Industrial (I)	2016	$0.59	$17.202.834	29.338.609	569554	$0.56	0.572178576	$0.59	$0.59	$0.59	1	$0.56	$0.21	$4.624.826.37	22.213.031	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
248	PG&E	A08	In6	S2	Percent first year annual kW gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kW gross	Industrial (I)	2016	0.15%	10.546	6.916.777	569554	0.07%	0.000369449	0.23%	0.23%	0.24%	0	0.16%	0.06%	3.909	6.310.251	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
249	PG&E	A08	In6	S2	Percent first year annual kW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kW net	Industrial (I)	2016	0.11%	7.653	6.916.777	569554	0.06%	0	0.17%	0.17%	0.17%	0	0.14%	0.05%	3.241	6.310.251	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
250	PG&E	A08	In6	S2	Percent first year annual kWh gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kWh gross	Industrial (I)	2016	0.49%	48.200.588	9.748.274.838	569554	0.30%	0	1.16%	1.13%	1.10%	0	0.68%	0.29%	38.145.541	12.976.186.880	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
251	PG&E	A08	In6	S2	Percent first year annual kWh net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kWh net	Industrial (I)	2016	0.38%	37.054.341	9.748.274.838	569554	0.25%	0	0.84%	0.82%	0.80%	0	0.57%	0.25%	32.835.520	12.976.186.880	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
252	PG&E	A08	In6	S2	Percent first year annual Therm gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual Therm gross	Industrial (I)	2016	0.07%	3.038.179	4.144.958.996	569554	0.09%	0	0.11%	0.11%	0.12%	0	0.22%	0.17%	7.892.627	4.665.414.423	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
253	PG&E	A08	In6	S2	Percent first year annual Therm net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual Therm net	Industrial (I)	2016	0.05%	2.127.794	4.144.958.996	569554	0.07%	0	0.10%	0.11%	0.11%	0	0.19%	0.10%	4.859.164	4.665.414.423	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
254	PG&E	A08	In6	S2	Percent lifecycle ex-ante kW gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kW gross	Industrial (I)	2016	1.09%	75.129	6.916.777	569554	0.84%	0	1.62%	1.66%	1.68%	0	1.14%	0.49%	30.704	6.310.251	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
255	PG&E	A08	In6	S2	Percent lifecycle ex-ante kW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kW net	Industrial (I)	2016	0.78%	53.710	6.916.777	569554	0.70%	0	1.18%	1.20%	1.22%	0	0.83%	0.35%	22.018	6.310.251	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
256	PG&E	A08	In6	S2	Percent lifecycle ex-ante kWh gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kWh gross	Industrial (I)	2016	4.40%	429.138.678	9.748.274.838	569554	3.79%	0	10.33%	10.05%	9.78%	0	6.09%	2.14%	277.974.465	12.976.186.880	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
257	PG&E	A08	In6	S2	Percent lifecycle ex-ante kWh net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kWh net	Industrial (I)	2016	3.26%	317.604.109	9.748.274.838	569554	3.18%	0	7.94%	7.73%	7.52%	0	4.68%	1.71%	221.636.241	12.976.186.880	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
258	PG&E	A08	In6	S2	Percent lifecycle ex-ante Therm gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante Therm gross	Industrial (I)	2016	1.02%	42.101.250	4.144.958.996	569554	0.77%	0.014025648	1.52%	1.56%	1.64%	0	3.10%	0.74%	34.556.085	4.665.414.423	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
259	PG&E	A08	In6	S2	Percent lifecycle ex-ante Therm net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante Therm net	Industrial (I)	2016	0.71%	29.338.609	4.144.958.996	569554	0.60%	0.009171187	1.06%	1.10%	1.15%	0	2.17%	0.48%	22.213.031	4.665.414.423	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study "Mid" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.
260	PG&E	A09	A1	S1	kW	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	First year annual kW gross	Agricultural (A)	2016	23.551	N/A	N/A	569.554	12.302	10526.08154	10.350	11.373	12.090	12,280	12.556	7.494	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
261	PG&E	A09	A1	S1	kW	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	First year annual kW net	Agricultural (A)	2016	17.181	N/A	N/A	569.554	8.088	6550.4833	8.720	9.474	9.998	10,221	10.756	4.664	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
262	PG&E	A09	A1	S1	kWh	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	First year annual kWh gross	Agricultural (A)	2016	76.357.393	N/A	N/A	569.554	37.334.735	28261055.43	64.751.466	71.595.603	75.954.461	73,886,455	67.750.780	19.218.489	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
263	PG&E	A09	A1	S1	kWh	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	First year annual kWh net	Agricultural (A)	2016	54.916.559	N/A	N/A	569.554	25.206.111	18712794	51.037.868	55.750.891	58.743.662	57,946,794	56.179.829	12.611.015	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
264	PG&E	A09	A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	First year annual Therm gross	Agricultural (A)	2016	1.113.179	N/A	N/A	569.554	406.662	139685.6482	360.106	341.380	339.186	436,144	570.658	1.426.325	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
265	PG&E	A09	A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	First year annual Therm net	Agricultural (A)	2016	871.717	N/A	N/A	569.554	246.683	85943.19012	417.288	410.246	411.919	481,756	584.018	925.398	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
266	PG&E	A09	A1	S1	kW	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	Lifecycle ex-ante kW gross	Agricultural (A)	2016	178.262	N/A	N/A	569.554	81.667	110071.2954	78.342	86.085	91.509	92,949	95.039	103.461	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
267	PG&E	A09	A1	S1	kW	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	Lifecycle ex-ante kW net	Agricultural (A)	2016	120.201	N/A	N/A	569.554	54.360	65093.97126	57.152	62.801	66.758	67,808	69.333	57.474	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
268	PG&E	A09	A1	S1	kWh	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	Lifecycle ex-ante kWh gross	Agricultural (A)	2016	698.948.565	N/A	N/A	569.554	251.386.871	302852673.5	592.712.016	655.360.826	695.260.269	676,330,475	620.166.676	257.222.853	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
269	PG&E	A09	A1	S1	kWh	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	Lifecycle ex-ante kWh net	Agricultural (A)	2016	481.735.607	N/A	N/A	569.554	174.700.778	198957260.9	426.280.981	471.338.269	500.034.117	486,419,730	446.026.488	167.140.061	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
270	PG&E	A09	A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	Lifecycle ex-ante Therm gross	Agricultural (A)	2016	10.137.313	N/A	N/A	569.554	4.557.496	1725340.681	3.279.356	3.108.819	3.088.841	3,971,802	5.196.771	21.402.885	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
271	PG&E	A09	A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in Agricultural sector, gross and net	Lifecycle ex-ante Therm net	Agricultural (A)	2016	7.013.911	N/A	N/A	569.554	2.729.233	1063153.458	2.568.024	2.434.478	2.418.834	3,110,270	4.069.529	13.887.348	N/A	N/A	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in D.17-09-025.	None
272	PG&E	A09	A2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Agricultural (A)	2016	24.977	N/A	N/A	569.554	2.659	8651	23.213	25.356	26.718	26,355	25.552	3.966	N/A	N/A	Calculated using CET, and reported by sector consistent with primary sector groupings in CEDARS PROGRAM specification.	Includes CO2 (in metric tons) but not NOX and PM10 as these are not GHG equivalents. For details regarding electric C02 emissions reduction values, refer to note in cell AA5
273	PG&E	A09	A3	: Particpa	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for large customers	Agricultural (A)	2016	7.90%	282	3.581	569554	5.40%	0.017465753	7.90%	7.90%	7.90%	0	7.90%	0.89%	34	3.834	Numerator: Number of participating large customers (defined by unique combination of account and premise ID) Denominator: Total number of large customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Large customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.
274	PG&E	A09	A3	: Particpa	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for medium customers	Agricultural (A)	2016	3.00%	930	30.959	569554	1.64%	0	3.00%	3.00%	3.00%	0	3.00%	0.54%	177	32.843	Numerator: Number of participating medium customers (defined by unique combination of account and premise ID) Denominator: Total number of medium customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Medium customers are defined as those who use between 40,000-500,000kWh or 10,000-250,000 therms annually.
275	PG&E	A09	A3	: Particpa	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for small customers	Agricultural (A)	2016	0.72%	581	81.390	569554	0.43%	0.001724961	0.72%	0.72%	0.72%	0	0.72%	0.08%	81	102.193	Numerator: Number of participating small customers (defined by unique combination of account and premise ID) Denominator: Total number of small customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Small customers are defined as those who use less than 40,000 kWh or 10,000 therms annually.
276	PG&E	A09	A4	LC	$/kW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Agricultural (A)	2016	$175.04	$21.039.789	120.201	569554	$191.04	155.3150918	$175.04	$175.04	$175.04	166	$166.29	$163.43	$9.393.079.41	57.474.29	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
277	PG&E	A09	A4	LC	$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Agricultural (A)	2016	$0.04	$21.039.789	481.735.607	569554	$0.06	0.050815316	$0.04	$0.04	$0.04	0	$0.04	$0.06	$9.393.079.41	167.140.061.03	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
278	PG&E	A09	A4	LC	$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Agricultural (A)	2016	$0.33	$2.281.443	7.013.911	569554	$0.68	0.599944758	$0.33	$0.33	$0.33	0	$0.31	$0.14	$1.923.883.73	13.887.348.03	PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
279	PG&E	A09	A4	LC	$/kW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Agricultural (A)	2016	$339.20	$40.771.778	120.201	569554	$448.54	333.26873	$339.20	$339.20	$339.20	322	$322.24	$277.39	$15.942.894.87	57.474.29	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
280	PG&E	A09	A4	LC	$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Agricultural (A)	2016	$0.09	$40.771.778	481.735.607	569554	$0.14	0.109037414	$0.09	$0.09	$0.09	0	$0.08	$0.10	$15.942.894.87	167.140.061.03	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
281	PG&E	A09	A4	LC	$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Agricultural (A)	2016	$0.63	$4.421.075	7.013.911	569554	$1.59	1.287336763	$0.63	$0.63	$0.63	1	$0.60	$0.24	$3.265.412.20	13.887.348.03	TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.
282	PG&E	A10	CS1	S1	Net GWh	S1: Energy Savings	Metric	Net Energy Savings: GWH	Net GWh savings	Codes & Standards (CS)	2016	1.402	N/A	N/A	569.554	1.450	1327	1212	1257	1267	1,327	1323	2.699	N/A	N/A	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year savings

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 17: Metrics Compliance Filing
2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
283	PG&E	A10	CS1	S1	Net MMTherms	S1: Energy Savings	Metric	Net Energy Savings: MM Therms	Net MMTherms savings	Codes & Standards (CS)	2016	29	N/A	N/A	569554	45	45	42	42	49	56	55	38	N/A	N/A	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year savings
284	PG&E	A10	CS1	S1	Net MW	S1: Energy Savings	Metric	Net Energy Savings: MW	Net MW savings	Codes & Standards (CS)	2016	272	N/A	N/A	569554	333	298	272	275	311	389	415	454	N/A	N/A	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year savings
285	PG&E	A10	CS2	1	Count	Advocacy-Building	Metric	Number of measures supported by CASE studies in rulemaking cycle (current work)	Number of measures supported by CASE studies in rulemaking cycle (current work)	Codes & Standards (CS)	2016	12	N/A	N/A	569554	64	0	N/A	N/A	12	12	12	0	N/A	N/A	Measures supported by CASE	Baseline and targets for measures supported are for 3 year cycle rather than annual.
286	PG&E	A10	CS2	2	Count	Advocacy-Building	Metric	Number of measures adopted by CEC in rulemaking cycle (indicator of past work)	Number of measures adopted by CEC in rulemaking cycle (indicator of past work)	Codes & Standards (CS)	2016	12	N/A	N/A	569554	57	0	N/A	N/A	12	12	12	0	N/A	N/A	Measures adopted by CEC	Baseline and targets for measures supported are for 3 year cycle rather than annual.
287	PG&E	A10	CS3	1	Count	Advocacy-Appliance	Metric	Number of T-20 measures supported by CASE studies in rulemaking cycle (current work)	Number of T-20 measures supported by CASE studies in rulemaking cycle (current work)	Codes & Standards (CS)	2017	5	N/A	N/A	569554	4	0	N/A	N/A	5	10	10	0	N/A	N/A	T-20 measures supported by CASE	Baseline is annual. Targets for measures supported are for 3 year cycle rather than annual. 2017 chosen as baseline since 2016 was zero.
288	PG&E	A10	CS3	2	Count	Advocacy-Appliance	Metric	Number of measures adopted by CEC in current year	Number of measures adopted by CEC in current year	Codes & Standards (CS)	2016	4	N/A	N/A	569554	3	3	N/A	N/A	10	10	10	2	N/A	N/A	Measures adopted by CEC	Baseline is annual. Targets for measures adopted are for 3 year cycle rather than annual.
289	PG&E	A10	CS4	1	Count	Advocacy-Federal	Metric	Number of federal standards adopted for which a utility advocated (IOUs to list advocated activites)	Number of federal standards adopted for which a utility advocated (IOUs to list advocated activites)	Codes & Standards (CS)	2016	22	N/A	N/A	569554	0	1	21	21	21	20	20	3	N/A	N/A	Standards adopted	Baselines and targets are annual. Any federal standards based upon Title 20 that were adopted will still be included in the federal count.
290	PG&E	A10	CS4	2	Count	Advocacy-Federal	Metric	Percent of federal standards adopted for which a utility advocated (#IOU supported / # DOE adopted)	Percent of federal standards adopted for which a utility advocated (#IOU supported / # DOE adopted)	Codes & Standards (CS)	2016	100%	N/A	N/A	56955400%	N/A	0.037037037	100%	100%	100%	1	100%	1	N/A	N/A	# IOUs supported ÷ # DOE adopted	Baselines and targets are annual.
291	PG&E	A10	CS5	1	Count	Reach Codes	Metric	The number of local government Reach Codes implemented (this is a joint IOU and REN effort)	The number of local government Reach Codes implemented (this is a joint IOU and REN effort)	Codes & Standards (CS)	2016	6	N/A	N/A	569554	5	10	N/A	N/A	25	25	25	31	N/A	N/A	Reach Code ordinances implemented	Targets are total for a three-year Title 24 code cycle. Jurisdictions having multiple reach codes will be counted by reach code rather than by jurisdiction. Accomplishments will be reported from the CEC Reach Codes website (http://www.energy.ca.gov/title24/2013standards/ordinances/).
292	PG&E	A11	CS6	1	Count	Compliance Improvement	Metric	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of training activities	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of training activities	Codes & Standards (CS)	2017	138	N/A	N/A	569554	191	190	138	138	138	138	138	195	N/A	N/A	Number of training activities	118 live training sessions and 20 webinars in 2017; short, mid, and long-term targets are annual
293	PG&E	A11	CS6	2	Count	Compliance Improvement	Metric	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of participants	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of participants	Codes & Standards (CS)	2017	3.600	N/A	N/A	569.554	4.970	3610	3600	3600	3600	3,600	3600	3.959	N/A	N/A	Number of participants	3000 attendees for live training and 600 attendees for webinars in 2017; short, mid, and long-term targets are annual. Attendees will be shown by major segment (i.e., building officials, builders, architects, HERS raters) and target size of each segment will be provided during first metrics reporting.
294	PG&E	A11	CS6	3	Score	Compliance Improvement	Metric	Increase in code compliance knowledge pre/post training	Increase in code compliance knowledge pre/post training	Codes & Standards (CS)	2017	20%	N/A	N/A	56955400%	18%	0.18	20%	20%	20%	0	20%	27%	N/A	N/A	Knowledge score	Code compliance knowledge increase will be tested via pre and post training questionaires. Surveys will be conducted for training that lasts longer than three hours (in order to preserve time for instruction in shorter training sessions). Questionaires will be made available during the first metrics reporting.
295	PG&E	A11	CS6R	1	Percent	Compliance Improvement	Metric	The percentage increase in closed permits for building projects triggering energy code compliance within participating jurisdictions	The percentage increase in closed permits for building projects triggering energy code compliance within participating jurisdictions	Codes & Standards (CS)	2018	N/A	N/A	N/A	569554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
296	PG&E	A11	CS6Ri	1	Count	Compliance Improvement	Indicator	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	N/A - Indicato	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator		
297	PG&E	A11	CS6Ri	1	Percent	Compliance Improvement	Indicator	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	N/A - Indicato	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator		
298	PG&E	A11	CS6Ri	2	Count	Compliance Improvement	Indicator	Number and percent of jurisdictions receiving Energy Policy technical assistance	Number and percent of jurisdictions receiving Energy Policy technical assistance	Codes & Standards (CS)	N/A - Indicato	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator		
299	PG&E	A11	CS6Ri	2	Percent	Compliance Improvement	Indicator	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Codes & Standards (CS)	N/A - Indicato	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	#N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator		
300	PG&E	A11	CS6Ri	3	Count	Compliance Improvement	Indicator	Buildings receiving enhanced code compliance support and delivering compliance data to program evaluators	Buildings receiving enhanced code compliance support and delivering compliance data to program evaluators	Codes & Standards (CS)	N/A - Indicato	N/A - Indicator	N/A - Indicator	N/A - Indicator	569554	N/A - Indicator	#N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator		
301	PG&E	A12	WET-1	1	Count	Collaborations	Metric	Number of collaborations by Business Plan sector to jointly develop or share training materials or resources.	Number of collaborations by Business Plan sector to jointly develop or share training materials or resources.	Workforce Education and Training (WET)	N/A	N/A--PG&E did not execute collaboration agreements in 2016	N/A	N/A	569554	N/A	5	N/A	5	6	8	8	9	N/A	N/A	Staff input.	"Collaborations" mean sharing mutually-beneficial resources such as training materials, expertise, and marketing/outreach tactics that help achieve WE&T goals and outcomes and that support the collaborating organizations' goals and objectives. The targets are based on interviews with PG&E staff. PG&E does not anticipate a steep increase in the number of collaborations, but rather turnover within our number of collaborations as activities become self-sustaining without the need for PG&E assistance. The 2018 target is set as N/A because PG&E does not currently have any signed collaboration agreements in place. Targets reflect number of agreements currently in place as of the referred time period.
302	PG&E	A12	WET-2	1	Count	Penetration	Metric	Number of participants by sector	Number of participants by sector	Workforce Education and Training (WET)	2016	a) Residential: 3,457 Non-Res: 3,056 TOTAL: 6,513 b) In order of popularity: HVAC 3,377 BuildingPerformance 3,272 Commissioning(Cx) 2,669 Lighting 1,729 ZeroNetEnergy 1,725 Title24 1,673 Controls 1,451 BuildingEnvelope 1,344 SitePlanning 1,295 Audits 1,125 Architecture 1,013 Renewables 956 Refrigeration 876 Motors 860 Process/Manufacturing 801 Solar 792 ClimateandEnvironment 771 Benchmarking 648 Daylighting 644	N/A	N/A	569554	a) 3,463 Res 9,259 Non-res. TOTAL: 12,992 b) In order of popularity: HVAC - 4919; Building Performance - 2742; Building Envelope - 2552; Controls - 2379; Commissioning (Cx) - 2318; Integrated Building Design / ZNE - 2301; Energy Code (Title 24) - 2255; Lighting - 1704; Architecture - 1528; Renewable Energy - 1232; Climate and Sustainability - 1082; Energy Auditing - 1040; Solar - 784; Water and Energy - 524; Daylighting - 508; Benchmarking - 455; Commercial Food Service - 448; Refrigeration - 440; Process/Manufacturing - 369; Software (Analysis, Modeling) - 240; Motors - 196; Finance - 114;	a) Residential: 3,866 Non-residential.: 9,596 ------------------------------ Total: 13,462 b) Agricultural: 306 Building Envelope: 3,352 Climate and Sustainability: 2,540 Commercial Food Service: 1,617 Commissioning: 2,096 Energy Auditing: 1,857 Energy Code (Title 24): 3,352 Finance: 221 Home Performance: 1,385 HVAC: 5,142 Industrial: 366 Integrated BldgDesign / ZNE: 4,131 Lighting: 2,919 Rates, Rebate & Incentive Progs: 964 Renewable Energy: 1,787 Software (Analysis, Modeling): 455 Water & Energy: 2,229 Other: 35	6,500 Total (3,450 res and 3,050 non-res)	6,500 Total (3,450 res and 3,050 non-res)	6,500 Total (3,450 res and 3,050 non-res)	res and 3,050 non-res)	6,500 Total (3,450 res and 3,050 non-res)	a) By res/non-res sector: Residential - 8,254 Non-residential - 11,565 ======================== Total: 19,819 b) By Class Topic: Agricultural - 521 Building Envelope - 4987 Climate and Sustainability - 5884 Commercial Food Service -980 Commissioning - 2958 Energy Auditing -3129 Energy Code (Title 24) - 6539 Finance - 359 Home Performance - 3574 HVAC - 9670 Industrial - 772 Integrated Building Design / ZNE - 5845 Lighting - 4098 Rates, Rebate & Incentive Programs - 1167 Renewable Energy - 2935 Software (Analysis, Modeling) - 719 Water & Energy - 3910	N/A	N/A	Report from class registration database.	"Sector" refers to: a. Residential versus non-residential b. Energy efficiency training topic area (e.g., Lighting, HVAC, Agricultural) "Participants" means aggregate class attendance, meaning that one person attending two classes throughout the year would qualify as two participants. This is an accurate measurement of audience interest per topic / sector. PG&E analyzed attendance rates since 2012 and discovered a high positive correlation (0.8) between unemployment rates in California and class attendance. Unemployment is not only an indicator of employment, but also the workload of the existing industry. In other words, when the workforce is busy, they do not have time to attend as many classes. The unemployment rate has fallen since 2016, which means that attendance may fall as well. PG&E will adjust the training format (e.g., Offer online classes) and time (e.g., Offer night classes) in order to maintain our 2016 attendance figure.
303	PG&E	A12	WET-2	1	Percentage	Penetration	Metric	Percent of participation relative to eligible target population for curriculum	Percent of participation relative to eligible target population for curriculum	Workforce Education and Training (WET)	2016	2.6% (3,450 unique participants)	3450	132380	56955400.00%	2.50%	3.10%	2.60%	2.60%	2.60%	0	2.60%	0	4.810	132.380	Numerator: from class registration database. Denominator: PG&E's share of 321,000 jobs is approximately 132,380. Advanced Energy Economy Institute (AEEI) report finding: "Energy Efficiency accounts for the largest share of advanced energy jobs in California. About six in 10 advanced energy workers are employed in the Energy Efficiency sector; these firms support over 321,000 jobs." Assume advanced Energy Efficiency jobs are commiserate with population for each PA territory. Population figues obtained from 2010 census.	"Participation" means unique participants, meaning that one person attending two classes throughout the year would be counted as one participant. "Curriculum" refers to the portfolio of training programs and training materials offered by WE&T "Eligible target population" refers to the energy efficiency labor workforce within each PA's service territory based on the proportion of the IOU's territory population compared to that of California's population. Justification for targets is consistent with justification provided for metric above.
304	PG&E	A12	WET-3	1	Percentage	Diversity	Metric	Percent of total WE&T training program participants that meet the definition of disadvantaged worker.	Percent of total WE&T training program participants that meet the definition of disadvantaged worker.	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A	569554	50.29%	47.30%	60%	60%	60%	1	60%	0	2.482	5.584	The zip codes available in PG&E's database are a mix of home and workplace zip codes. Starting in 2019, PG&E will request home zip codes specifically.	Calculation based on students with valid CA (not just PG&E) zip codes. Numerator includes students with any CA zip code. Our 2018 records also do not include people who benefited from WE&T through consultations, outreach classes, etc..
305	PG&E	A12	WET-3	1	Percentage	Diversity	Metric	Percent of incentive dollars spent on contracts* with a demonstrated commitment to provide career pathways to disadvantaged workers	Percent of incentive dollars spent on contracts* with a demonstrated commitment to provide career pathways to disadvantaged workers	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A	569554	N/A	N/A	2%	2%	3%	0	10%	N/A	N/A	N/A	Disadvantaged worker tracking is currently not required by PA contract terms and conditions.	*Applies only to programs that install, modify, repair, or maintain EE equipment where the incentive is paid to an entity other than a manufacturer, distributor, or retailer of equipment. This applicability standard is adopted from the language the July 9th ruling on workforce standards. It excludes contracts such as those for upstream incentives, Codes and Standards, and mid-stream distributor programs. "Demonstrated commitment" means that the vendor submits a plan describing how the program will provide disadvantaged workers with improved access to career opportunities in the energy efficiency industry, that they regularly report the percentage of their workforce qualifying as "disadvantaged", and that they have long-term targets for the percentage of their workforce qualifying as "disadvantaged". See "Disadvantaged worker" above. Data to support this metric will be required by new third-party program implementers as part of the upcoming solicitations.
306	PG&E	A12	WET-3i	1	Count	Diversity	Indicator	Number Career & Workforce Readiness (CWR) participants who have been employed for 12 months after receiving the training	Number Career & Workforce Readiness (CWR) participants who have been employed for 12 months after receiving the training	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A	569554	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A, 3P program to launch late 2021	N/A, 3P program to launch late 2021	N/A, 3P program to launch late 2021	CWR program does not yet exist. CWR RFA/RFP will be issued Q3 2019 with exptected launch mid-2020.	This metric applies only to the Statewide CWR program, which will help Disadvantaged Workers enter the energy industry, and not technical upskill classes offered at the Energy Centers. As the lead PA, PG&E will report on this metric for the whole state.
307	PG&E	A13	ETP-M1	1	Count	Research Prioritization	Metric	Number of TPMs initiated (gas and electric combined), including one technology-focused pilot (TFP) TPM *This number will be updated once all third party contracts have been awarded.	Number of TPMs initiated (gas and electric combined), including one technology-focused pilot (TFP) TPM	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	6 Electric and gas TPMs where initially developed in 2017 and 2018 respectivley	0	0	6	tbd TPMs*	tbd TPMs*	This metric will be updated once 3P implementation begins	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers annually.	1) Technology priority maps (TPMs) are defined in the Business Plan 2) Technology-focused pilot: See ETP-M7
308	PG&E	A13	ETP-M2	1	Count of TPMs	Research Prioritization	Metric	Number of TPMs updated *This number will be updated once all third party contracts have been awarded.	Number of TPMs updated	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A—Electric TPMs will be updated in 2020	0	0	3	tbd TPMs*	tbd TPMs*	Electric TPMs were updated in 2020	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers annually.	1) Technology priority maps (TPMs) are defined in the Business Plan
309	PG&E	A13	ETP-M3	1	Count of Projects	Projects	Metric	Number of projects initiated *This number will be updated once all third party contracts have been awarded.	Number of projects initiated	Emerging Technologies (ET)	2016	61	N/A	N/A	569554	47	44	0	0	61	tbd projects*	tbd projects*	23	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers annually.	1) Technology priority maps (TPMs) are defined in the Business Plan 2) Projects are considered "initiated" when project budget has been approved and funding allocated.
310	PG&E	A13	ETP-M4	1	Count of Events	Outreach	Metric	Number of outreach events with technology developers with products <1 year from commercialization, including new technology vendors, manufacturers, and entrepreneurs. *This number will be updated once all third party contracts have been awarded.	Number of outreach events with technology developers with products <1 year from commercialization, including new technology vendors, manufacturers, and entrepreneurs	Emerging Technologies (ET)	2016	5	N/A	N/A	569554	6	5	0	2	3	tbd events*	tbd events*	5	N/A	N/A	Each ETP event will provide data for ETP-M4 and ETP-M5 simultaneously.**Data for this metric will be gathered from TPM Implementers annually based on methodology to be determined.	1) "Technology developers" – Any organization or company that develops energy efficiency and demand response technology suitable for inclusion in PA incentive programs 2) "Events" – ET Summit, webinars, and in-person meetings, as proposed by ETP implementers.
311	PG&E	A13	ETP-M5	1	Count of Events	Outreach	Metric	Number of outreach events with technology developers with products <5 years from commercialization, including new technology vendors, manufacturers, and entrepreneurs. *This number will be updated once all third party contracts have been awarded.	Number of outreach events with technology developers with products <5 years from commercialization, including new technology vendors, manufacturers, and entrepreneurs	Emerging Technologies (ET)	2016	See ETP-M4	N/A	N/A	569554	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	N/A	N/A	Each ETP event will provide data for ETP-M4 and ETP-M5 simultaneously.**Data for this metric will be gathered from 3P TPM Implementers annually based on methodology to be determined.	1) "Technology developers" – Any organization or company that develops energy efficiency and demand response technology suitable for inclusion in PA incentive programs. 2) "Events" – ET Summit, webinars, and in-person meetings, as proposed by ETP implementers.
312	PG&E	A14	ETP-M6	1	Count of TFPs	Pilots	Metric	Number of projects initiated with cooperation from other internal IOU programs associated with each Technology-focused Pilot *This number will be updated once all third party contracts have been awarded.	Number of projects initiated with cooperation from other internal IOU programs associated with each Technology-focused Pilot	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A—TFPs will begin once 3P implentation contracts have been awarded	0	0	2	tbd*	tbd*	N/A—TFPs will begin once 3P implentation contracts have been awarded	N/A	N/A	ETP-M6 metric is a subset of ETP-M7 and counted towards ETP-M7 targets. All targets will be determined by 3P TPM implementers.	1) "Cooperation" is defined as a process by which all parties work towards a mutual objective.
313	PG&E	A14	ETP-M7	1	Count of TFPs	Pilots	Metric	Number of Technology-Focused Pilot (TFP) initiated as part of the TFP TPM. *This number will be updated once all third party contracts have been awarded.	Number of Technology-Focused Pilot (TFP) initiated as part of the TFP TPM	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A—TFPs will begin once 3P implentation contracts have been awarded	0	0	3	tbd*	tbd*	N/A—TFPs will begin once 3P implentation contracts have been awarded	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers annually.	1) A technology-focused pilot (TFP) will identify market barriers for a diverse range of high-impact technologies through studies, and subsequently breaking down identified barriers in collaboration with other relevant programs . 2) "Technology-focused Pilot"- Pilots that have been proposed by 3Ps in response to PA needs and that have been approved through the existing ED Ideation Process. These includes TFPs conducted in cooperation with other programs.
314	PG&E	A15	ETP-T1	1	Percent of New Measures	Measure Tracing	Metric	Prior year: % of new measures added to the portfolio that were previously ETP technologies *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new measures.	Prior year: % of new measures added to the portfolio that were previously ETP technologies	Emerging Technologies (ET)	N/A	Per ED, to be determined by an ED study*	N/A	N/A	569554	0	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	mined by an ED study*	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study*	N/A	N/A	Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractors. ED evaluators can make recommendations on what suitable targets would be. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP -T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.
315	PG&E	A15	ETP-T2	1	Count of New Measures	Measure Tracing	Metric	Prior Year: # of new measures added to the portfolio that were previously ETP technologies. *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new measures.	Prior Year: # of new measures added to the portfolio that were previously ETP technologies	Emerging Technologies (ET)	N/A	Per ED, to be determined by an ED study*	N/A	N/A	569554	0	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	mined by an ED study*	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study*	N/A	N/A	Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP -T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.
316	PG&E	A15	ETP-T3	1	Percent	Measure Tracing	Metric	Prior year: % of new codes or standards that were previously ETP technologies. *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new codes or standards.	Prior year: % of new codes or standards that were previously ETP technologies	Emerging Technologies (ET)	N/A	Per ED, to be determined by an ED study*	N/A	N/A	569554	0	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	mined by an ED study*	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study*	N/A	N/A	Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor.	ETP-T1 through ETP -T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.
317	PG&E	A15	ETP-T4	1	Count	Measure Tracing	Metric	Prior Year: # of new codes and standards that were previously ETP technologies. *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new codes or standards.	Prior Year: # of new codes and standards that were previously ETP technologies	Emerging Technologies (ET)	N/A	Per ED, to be determined by an ED study*	N/A	N/A	569554	0	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	mined by an ED study*	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study*	N/A	N/A	Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then. PAs will work with ED to support matching ETP content to portfolio content.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.
318	PG&E	A15	ETP-T5a	1	Lifecycle net kW	Savings Tracing	Metric	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available. *The PAs believe this is not suited for a metric with targets because ETP is a non-resource program and does not claim any savings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	N/A	Per ED, to be determined by an ED study*	N/A	N/A	569554	0	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	mined by an ED study*	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study*	N/A	N/A	Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. ETP is a non-resource program and does not make savings claims.
319	PG&E	A15	ETP-T5b	1	Lifecycle net kWh	Savings Tracing	Metric	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available. *The PAs believe this is not suited for a metric with targets because ETP is a non-resource program and does not claim any savings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	N/A	Per ED, to be determined by an ED study*	N/A	N/A	569554	0	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	mined by an ED study*	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study*	N/A	N/A	Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. ETP is a non-resource program and does not make savings claims.

Pa Name: Pacific Gas and Electric Company
Budget Year: 2022-2023
Table 17: Metrics Compliance Filing
2022-2023 Forecast is embedded in the Mid Term Forecast. Final results are provided in the Annual Report.

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	Short Term Annual Targets (2018 Target)	Short Term Annual Targets (2019 Target)	Short Term Annual Targets (2020 Target)	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions
320	PG&E	A15	ETP-T5c	1	Lifecycle net Therms	Savings Tracing	Metric	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available. *The PAs believe this is not suited for a metric with targets because ETP is a non-resource program and does not claim any savings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	N/A	Per ED, to be determined by an ED study*	N/A	N/A	569554	0	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	Per ED, to be determined by an ED study	mined by an ED study*	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study*	N/A	N/A	Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. ETP is a non-resource program and does not make savings claims.
321	PG&E	A15	ETP-T6a	1	Count of project ideas by PA	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process by PA	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A— TPMs will be used once 3P implentation contracts have been awarded.	0	2	2	tbd*	tbd*	N/A— TPMs will be used once 3P implentation contracts have been awarded.	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.
322	PG&E	A15	ETP-T6b	1	Count of project ideas by national labs	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process by National Lab	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A—TPMs will initiated once 3P implentation contracts have been awarded.	0	1	1	tbd*	tbd*	N/A—TPMs will initiated once 3P implentation contracts have been awarded.	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.
323	PG&E	A15	ETP-T6c	1	Count of project ideas by manufacturers	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process by Manufacturer	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A— TPMs will be used once 3P implentation contracts have been awarded.	0	1	1	tbd*	tbd*	N/A— TPMs will be used once 3P implentation contracts have been awarded.	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.
324	PG&E	A15	ETP-T6d	1	Count of project ideas by entrepreneurs	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process by Entrepreneur	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A— TPMs will be used once 3P implentation contracts have been awarded.	0	0	1	tbd*	tbd*	N/A— TPMs will be used once 3P implentation contracts have been awarded.	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing. "Submitted" refers to an idea submitted through a formal submission process.
325	PG&E	A15	ETP-T7a	1	Count of project ideas by PA	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	ETP-T7a Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process by PA	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A— TPMs will be used once 3P implentation contracts have been awarded.	0	3	3	tbd*	tbd*	N/A— TPMs will be used once 3P implentation contracts have been awarded.	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.
326	PG&E	A15	ETP-T7b	1	Count of project ideas by national labs	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process by National Lab	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A— TPMs will be used once 3P implentation contracts have been awarded.	0	1	1	tbd*	tbd*	N/A— TPMs will be used once 3P implentation contracts have been awarded.	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.
327	PG&E	A15	ETP-T7c	1	Count of project ideas by manufacturers	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process by Manufacturer	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A— TPMs will be used once 3P implentation contracts have been awarded.	0	1	1	tbd*	tbd*	N/A— TPMs will be used once 3P implentation contracts have been awarded.	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.
328	PG&E	A15	ETP-T7d	1	Count of project ideas by entrepreneurs	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process by Entrepreneur	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	N/A	N/A— TPMs will be used once 3P implentation contracts have been awarded.	0	0	1	tbd*	tbd*	N/A— TPMs will be used once 3P implentation contracts have been awarded.	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.
329	PG&E	A16	ETP-T8	1	Number of lists	Statewide Goal Alignment	Metric	List of ETP projects aligned with statewide goals that were initiated in the reporting year with specificity as to what aspect of each goal it is fulfilling. Goals will also be labeled in the ETP database. A list of eligible goals will be developed collaboratively with ED.	List of ETP projects aligned with statewide goals that were initiated in the reporting year with specificity as to what aspect of each goal it is fulfilling	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	569554	The statewide goals to be tracked are still under collaborative discussion with ED and not yet available; hence, no data will be reported for 2018	N/A - The statewide goals to be tracked are still under collaborative discussion with ED and not yet available; hence, no data will be reported for 2019	N/A	N/A	N/A	3 lists cumulative	2 lists cumulative	N/A - The statewide goals to be tracked are still under collaborative discussion with ED and not yet available; hence, no data will be reported for 2020?	N/A	N/A	Data for this metric will be gathered from 3P TPM Implementers. An ETP project may align with multiple statewide goals and will be listed under each goal. **	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing , however the commission ruled that these tracking metrics must have targets. The "statewide goals" will be tracked will be developed and updated in collaboration with ED as needed. Projects are considered "initiated" when project budget has been approved and funding allocated.

PG&E 2022 and 2023 BBAL Attachment B – Supplemental Budget Tables

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PG&E's Supplemental Budget Information

On August 8, 2019, PG&E, the Public Advocates Office (Cal PA), and The Utility Reform Network (TURN), met and conferred to discuss the supplemental budget information for inclusion in the Program Administrators' (PAs) 2022 and 2023 Annual Budget Advice Letter filings. *The three parties agreed on a template to be submitted with each PA's 2022 and 2023 Annual Budget Advice Letter (ABAL). PG&E submits the following information pursuant to its agreement with Cal PA and TURN and in support of its 2022 and 2023 ABAL.*

I. DESCRIPTION OF IN-HOUSE ENERGY EFFICIENCY (EE) ORGANIZATIONAL STRUCTURE & ASSOCIATED COSTS

A. Narrative description of in-house departments/organizations supporting the Program Administrator's (PA) EE portfolio

1. Functions conducted by each department/organization.

   PG&E's "Narrative Description – Functions Conducted by Each Department/Organization" is provided in Appendix I.A.1. of this Attachment B for Supplemental Budget Information.

2. Management structure and organizational chart.

   An organizational chart depicting the management structure of PG&E's Energy Efficiency Department is provided in Appendix I.A.2 of this Attachment B for Supplemental Budget Information.

3. Staffing needs by department/organization, including current and forecast for 2021-2023, as well as a description of what changes are expected in the near term (2024-2025) or why it is impossible to predict beyond 2022, if that is the Program Administrator's position.

   PG&E's staffing for 2020 and 2022-2023 forecast are provided in the "Portfolio Headcount (FTE)" table in Appendix I.C.

   PG&E expects its staffing needs in 2024-2025 to be relatively flat to our 2023 forecast. PG&E anticipates labor adjustments across internal teams rather than labor reductions. PG&E has identified several efficiencies in the last few years that have enabled us to reduce our labor forecast by about 40% compared to 2018 labor costs. While we pursue efficiencies and reductions in 2024 and beyond, a key component to the success of our now majority-third party portfolio is to support the third-party implementers as needed, and to reduce labor and costs in areas as necessary. Those adjustments are reflected in our 2022-23 headcount forecast, and we expect to see more of them in 2024+ as both PG&E and our third-party implementers identify opportunities for improvement and increased efficiencies based on program performance and needs.

4. Non-program functions currently performed by contractors (e.g. advisory consultants), as well as a description of what changes are expected in the near term (2024-2025) or why it's impossible to predict beyond 2022, if that is the PA's position.

   All costs charged to the EE balancing account (i.e., the cost reflected in section I. C, below) support PG&E's EE programs. As such, there are no "non-program" costs to disclose. PG&E does not foresee any change in this practice.

5. Anticipated drivers of in-house cost changes by department/organization.

   PG&E lists its drivers of in-house cost changes by department/organization in the table in Appendix I.A.5. of this Attachment B for Supplemental Budget Information.

6. Explanation of method for forecasting costs.

   PG&E's 2022 and 2023 forecasts reflect its continued focus on transitioning to a predominantly third-party outsourced portfolio. The forecasts assume PG&E will achieve the 60% outsourcing target by December 31, 2022. As the transition continues, PG&E's forecasted portfolio consists of (1) an evolving mix of continuing local and statewide programs, newly contracted local and statewide programs that PG&E expects to ramp up in early 2022 and into 2023, and (2) future programs that have not yet been solicited or contracted but are projected to become active at some point in 2022 or 2023. PG&E adopted various forecast approaches, as appropriate, for these different types of programs.

   Where PG&E's BBAL forecast relies on an implementer-generated program forecast, PG&E reviewed that forecast for reasonableness and for adherence with CPUC requirements before including it in the portfolio forecast. In cases where a Statewide program forecast was provided to PG&E by the Lead IOU, PG&E relied on the expertise of that Lead IOU in preparing the forecast for that program. To forecast for future local or PG&E-led Statewide programs, PG&E generated a placeholder forecast informed by market knowledge, historic performance of program interventions in that market or with relevant measure(s) and subject-matter expertise of PG&E's Program Management and Portfolio Strategy staff.

   Forecasting reflects staffing needs to support key functions as a program administrator, e.g., supporting program activity for new local and statewide programs, enabling third parties by generating customer leads, and providing QC functions. PG&E also continues to focus attention on regulatory activities and meeting policy objectives.

B. Table showing PA EE "Full Time Equivalent" (FTE) headcount by department/organization.

The table showing PG&E full-time equivalent headcount can be found in Appendix I.B. of this Attachment B for Supplemental Budget Information.

C. Table showing costs by functional area of management structure.

PG&E provides the requested information in multiple tables in Appendix I.C. of this Attachment B for Supplemental Budget Information:

- Function Definitions Table,
- Residential Budget Detail,
- Commercial Budget Detail,
- Agricultural Budget Detail,
- Industrial Budget Detail,
- Public Sector Budget Detail, and
- Cross-Cutting Budget Detail.

These tables itemize expenses into labor, non-labor O&M (with contract labor identified). There were no associated capital costs.

D. Table showing cost drivers across the EE organization

The following table shows the major cost drivers across PG&E's EE organization. As recommended by TURN and Cal PA, this table is based on the format of testimony concerning cost drivers in PG&E's 2020 general rate case (GRC).

Cost Driver	2020 Expenditures	2022 Forecast	Difference from 2020	2023 Forecast	Difference from 2022
Program Design and Delivery – Implementer Contracts & Incentives	$114.8	$168.1	$53.3	$189.5	$21.3
Program Design and Delivery – PG&E PA Costs	$43.4	$39.8	-$3.5	$40.5	$0.6
Program Fulfillment	$1.8	$2.0	$0.2	$2.1	$0.1
Operations Support	$15.0	$13.7	-$1.3	$14.6	$0.9
Total*	**$175.0**	**$223.7**	**$48.8**	**$246.7**	**$22.9**

*This is PG&E's total spending budget, excluding EM&V and On Bill Financing (OBF) Loan Pool.

Program Design and Delivery (Implementer Contracts & Incentives) – Increase due to new third-party qualifying programs (+$50M in 2022 and an incremental +$15M in 2023) and statewide programs (+$47M in 2022 and an incremental +$21M in 2023). These increases were offset by reductions in PG&E's local non-3P qualifying contracts and incentives (-$44M in 2022, and an incremental -$15M in 2023).

Program Design and Delivery (PG&E PA Costs) – Decrease primarily driven by reduction in Account Management and Marketing costs as portfolio transitions to third-party implemented and implementers take on more of these efforts.

Program Fulfillment – Increase in Inspection costs relative to 2020 due to lower than anticipated inspections in 2020 due to COVID-19 restrictions, offset by reduction in Application Management costs with fewer rebates being processed.

Operations Support – Decrease in 2022 driven by temporary reduction in IT forecast to

offset higher-than-anticipated 2020-2021 IT costs necessary to set up meter-based processes; maintained higher IT forecast in 2023 to cover new and continuing IT work expected to be necessary to administer the EE portfolio (e.g., implementing TSB and SW program administration). Absorbing costs for continued additional Policy, Strategy, and Regulatory Reporting Compliance activities related to SW programs and 3P outsourcing implementation, increased coordination activities with REN/CCA PAs, implementation of D.21-05-031 and move to the Total System Benefit (TSB) metric, and increasing coordination with other DSM programs due to IDSM efforts and cross-cutting initiatives such as reliability and electrification.

E. Explanation of allocation of labor and O&M costs between EE-functions and GRC- functions or other non-EE functions

1. When an employee spends less than 100% of her/his time on EE, how are costs tracked and recovered (e.g., on a pro rata basis between EE rates and GRC rates; when time exceeds a certain threshold, all to EE; etc.).

PG&E employees fill out timesheets each week and charge their hours worked to order numbers. Typically, an employee will charge a maximum of 40 hours per week. Order numbers are the accounting vehicle for capturing costs of the EE subprograms, as well as non-EE programs (demand response (DR), Energy Savings Assistance (ESA), etc.) and GRC-related activities. Each order number is assigned attributes that allow for the accurate reporting of charged costs. There are unique attributes assigned to each order that identify the following information used for regulatory reporting:

- Funding Cycle (e.g., EE, DR, ESA, etc.)
- EE Program or Sector (e.g., Residential, Commercial, Industrial, etc.)
- EE Subprogram (e.g., Multifamily Energy Savings Program, Commercial Calculated Incentives, etc.)
- Cost Category (e.g., Administrative, Marketing, Implementation, EM&V)
- Program Type (e.g., Resource, Non-resource)
- Delivery Channel (e.g., Core, Third-party, etc.)

Each order number can only be assigned one attribute from each of the above reporting categories. For example, an order cannot be assigned multiple funding cycles. Costs charged to an order can only be identified and reported as either EE or DR or ESA or GRC, etc. An order can only be identified and reported to only one Sector, only one Subprogram, only one Cost Category, etc.

Because of this model of charging and categorizing costs, when an employee fills out a timesheet, the employee must choose an order or orders that reflect the work functions performed during the week. There is a dropdown menu on the timesheet in which the employee selects the appropriate order number that reflects the work performed. For example, assume that a PG&E employee performed implementation functions for the Commercial Calculated Incentives subprogram that is part of the current EE funding cycle for 24 hours during one week. The employee must choose an order number that describes the subprogram, funding cycle, and cost category of the work performed. The employee would accordingly record 24 hours associated

with that order. Then, assume that the same employee also worked 16 hours in the same week on some GRC activities. The employee would choose a different order number that best describes the GRC activities performed, then record the 16 hours against that GRC order.

Once the timesheet is complete, the employee's supervisor would review and approve it. Because of the existing cost model, costs charged to GRC-related orders should not be reported or charged against authorized EE budgets or recorded in EE balancing accounts. By the same token, costs charged to EE orders should be reported against authorized EE budgets, recorded in the EE balancing accounts, and matched against the electric and gas EE- collected revenue. Management costs and other overheads such as office charges are embedded in the employee hourly rate.

2. Describe the method used to determine the proportion charged to EE balancing accounts for all employees who also do non-EE work.

See the response to Question I.E.1, above.

3. Identify the EE functions that are most likely to be performed by employees who also do non-EE work (e.g. Customer Account Representatives?)

PG&E identifies the following functional groups (and the internal group that is included within it):

- Account Management / Sales
- Engineering Services support (Applied Technical Services Organization)
- Call Centers
- Marketing, Education and Outreach
- Inspections
- Information Technology (IT and System Administration)
- Program Management support (Sourcing Organization)
- Portfolio Analytics
- Policy, Strategy, and Regulatory Reporting Compliance support (Business Finance Organization, Business Development & Customer Engagement Performance Reporting & Analysis)

4. Are labor costs charged to EE fully loaded?

Yes.

5. How are burden benefit-related administrative and general (A&G) expenses for employees who work on EE programs recovered (EE rates or GRC rates)?

PG&E allocates these costs to EE pursuant to a settlement agreement with Marin Clean Energy (MCE) and TURN, which was adopted in Decision (D.)14-08-032. PG&E's burden benefit-related A&G expenses for employees who work on EE programs are litigated through its GRC and are recovered through EE rates.

6. When EE and non-EE activities are supported by the same non-labor resources, how are the costs of those resources or systems allocated to EE and non-EE activities?

   Assuming that "non-labor resources" are defined as contractors and consultants, typically a contract would be created that supports only one funding cycle. The contractor would perform work for only EE, only DR or only ESA, etc. within the scope of one contract. However, occasionally there are contracts that support multiple funding cycles. In this situation, when the Purchase Order (PO) for the contract is created, all work and contracted amounts within the scope of the contract are identified as to the funding cycle being supported (EE, ESA, DR, etc.). Separate PO line items representing each funding cycle would be assigned order numbers that roll up to that particular funding cycle. When the contractor performs work on the contract, its invoice should specify enough detail to determine which funding cycle(s) the work pertained to and which PO line item(s) the work should be charged against. When the invoice is paid, the appropriate order numbers are charged and the costs are reported to the corresponding funding cycles.

7. Identify the EE O&M costs that are most likely to be spread to non-EE functions as well as EE, if any

   See the list provided in response to Question I.E.3, above.

II. BUDGET TABLES INCLUDING INFORMATION IDENTIFIED IN THE SCOPING MEMO[1]

A. Scoping Memo Attachment-A, Question C.8

"Present a single table summarizing energy savings targets, and expenditures by sector (for the six specified sectors). This table should enable / facilitate assessment of relative contributions of the sectors to savings targets, and relative cost-effectiveness."

1. TURN and ORA invite the PAs to propose a common table format for this information. We don't have anything specific in mind. Additionally, include a brief description of the method used by the PA to estimate the costs presented in the C.8 Table.

   A single table labeled "Portfolio Summary" summarizing energy savings targets, and expenditures by sector (for the six specified sectors) can be found in Appendix II.A. of this Attachment B for Supplemental Budget Information. Please refer to PG&E's response to Question I.A.6 for a brief description of the method used by PG&E to estimate the costs presented in this table.

B. Scoping Memo Attachment-A, Question C.9

"Using a common budget template developed in consultation with interested stakeholders

[1] A Scoping Memo was issued on April 14, 2017 seeking supplemental budget information from PAs. See D.18-05-041, p.6.

(hopefully agreed upon at a "meet and confer" session), display how much of each year's budget each PA anticipates spending "in-house" (e.g., for administration, non-outsourced direct implementation, other non-incentive costs, marketing), by sector and by cross-cutting program."

1. TURN and ORA invite the PAs to propose a common table format for this information. We don't have anything specific in mind. Additionally, include a brief description of the method used by the PA to estimate the costs presented in the C.9 Table.

   Please refer to the Tables in Section I.C, "Costs by functional Areas of Management Structure," for PG&E's estimate of the portion of annual budget that it anticipates spending "in-house" (e.g., for administration, non-outsourced direct implementation, other non-incentive costs, and marketing), by sector and by cross-cutting programs. Please refer to PG&E's response to Question I.A.6 for a brief description of the method used by PG&E to estimate the costs presented in this table.

C. Scoping Memo Attachment-A, Question C.10

"Present a table akin to PG&E's Figure 1.9 (Portfolio Overview, p 37) or SDG&E's Figure 1.10 (p. 23) that not only shows anticipated solicitation schedule of "statewide programs" by calendar year and quarter, but also expected solicitation schedule of local third-party solicitations, by sector, and program area (latter to extent known, and/or by intervention strategy if that is more applicable). For both tables, and for each program entry on the calendar, give an approximate size of budget likely to be available for each solicitation (can be a range)."

1. TURN and ORA invite the PAs to propose a common table format for this information. We don't have anything specific in mind. Additionally, include a brief description of the method used by the PA to estimate the costs presented in the C.10 Table.

   PG&E provides a table with its expected solicitation schedule for local third-party solicitations and by sector in Appendix II.C. of this Attachment B for Supplemental Budget Information. For PG&E's budgets for Statewide Programs, please refer to the Statewide Budget Table in Table 6 of Attachment A Template of PG&E's 2022-2023 BBAL.

LIST OF ATTACHMENT 2 APPENDICES

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I.A1.	Narrative Description – Functions Conducted by Each Department/Organization
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I.A.5.	Drivers of In-House Cost Changes
I.B.	Energy Efficiency "Full Time Equivalent" Headcount: Portfolio Staffing
I.C.	Costs by Functional Area of Management Structure: Function Definitions Residential Budget Detail Commercial Budget Detail Agricultural Budget Detail Industrial Budget Detail Public Sector Budget Detail Cross-Cutting Budget Detail.
II.A.	Question C-8: Portfolio Summary
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PG&E 2022-2023 BBAL Attachment B: Supplemental Budget Information

Appendix I.A1.

Narrative Description – Functions Conducted by Each Department/Organization

Codes and Standards (C&S) & Cross Cutting: This team manages several programs that share a common goal of integrating voluntary programs with codes and standards to accelerate commercialization of advanced technologies and to transform markets. The team manages the code advocacy, code readiness and code compliance programs, and a reach codes program, which all aim to strengthen or develop regulations to promote energy efficiency and reduce greenhouse gas emissions. By supporting the development of codes and standards enhancements and reach, market readiness and compliance, these programs help ensure that California realizes the significant savings from codes and standards. This team also manages the Residential and Nonresidential New Construction programs which directly promote advanced EE technologies and electrification, collect data for future codes and standards advocacy and compliance improvement efforts, and conduct strategic interventions which strengthen the building industry's capacity to adopt and apply new regulations and technologies.

Education Centers (Energy Centers): This team supports the training centers and delivers classes/events each year to a variety of partners including 3P, Low Income, Contractors, Architects, etc. They also maintain a tools lending library, deliver programs to K-12 schools + community colleges throughout our territory and consult on energy efficiency needs for customers.

EE Procurement: The EE Procurement team oversees the procurement of new local and statewide customer programs and other customer-facing support tools. As a Project Management Office (PMO), the team is structured as a centralized resource that maintains consistent processes and procedures for the execution of competitive solicitations and contract origination. The primary objective of the EE PMO is the implementation of a business strategy to achieve at least 60% of the EE budget to fund EE programs proposed, designed, implemented and delivered by third party vendors by 2023. In addition to solicitations for EE customer programs, the EE PMO also leads solicitations that support Commission initiatives related to EE (Market Transformation Administrator (MTA), Energy Savings Assistance (ESA) ,and CAEECC Facilitator), cross-departmental initiatives that include EE (Marketplace website, summer reliability, and Public Safety Power Shutoff (PSPS) Behind-the-Meter (BTM) reliability), and supports PG&E Energy Supply in the execution of Distribution Investment Deferral Framework (DIDF) solicitations resulting from the Integrated Distributed Energy Resources (IDER) proceeding.

EE Quality Control and Communications (QC&C): The EE QC&C team includes the Deemed Platform Quality Control (DPQC) team, the Custom Implementation Team (CIT), and the Oversight, Verification, and Engineering Review (OVER) teams. QC&C is also responsible for oversight on EE Meter-based Platform Quality Control—including NMEC Quality Control--as well as our process improvement and guidance document oversight, and EE stakeholder communications and training. DPQC develops and maintains workpaper data that substantiate the energy savings for our deemed products. CIT reviews calculated incentive applications for compliance and manages the CPUC's Custom Project Review process for calculated projects. The OVER team provides technical review and data quality review for projects in our custom,

meter-based, and financing platforms. All parts of QC&C support the review of program data including savings claims that will be reported to the CPUC. Overall, the QC&C team supports the delivery of accurate and compliant incentive program data across all channels by providing technical support, performing quality assurance activities, and managing EE-related communication and training with internal parties and external vendors.

Non-Residential Programs: This team includes the Commercial Programs, Industrial, Agriculture, & Water Programs (IAW), and financing programs. The Commercial team focuses on leveraging relationships with retailers, manufacturers, distributors and trade professionals to drive access and adoption of EE products and services. In addition, the IAW Program team is responsible for the overall strategy and execution of energy efficiency programs that cater to a wide array of customer segments that include Refineries, Oil Production, Manufacturing, Food Processing, Water Agencies, Wineries, Dairies and Agricultural Growers. The IAW team is also leading the water-energy nexus related activities. Our financing team oversees On-Bill Financing, our interaction with the Statewide financing pilots, project evaluation tools and EE funding related activities.

Policy Shaping, Analysis & Compliance: This team provides policy and long-term strategic direction to PG&E's EE organization, and ensures compliance with regulatory and legislative EE policies. The team is also responsible for reporting the performance data, as required by the Commission, to demonstrate progress and achievement of PG&E's EE portfolio. In addition, this team includes PG&E's evaluation, measurement and verification (EM&V) experts who conduct market and program evaluations to inform program and portfolio management and planning. This team engages regularly with a number of policy, reporting and evaluation stakeholders, including Energy Division staff.

Portfolio Strategy & Optimization (PSO): This team focuses on developing and articulating the EE portfolio strategy and optimizing it through portfolio performance management and data driven analyses to make actionable recommendations. This team is also responsible for portfolio-level savings and cost-effectiveness forecasts and supports the Policy, Shaping, Analysis, and Compliance team to incorporate regulatory and legislative EE policies into the EE portfolio.

Residential and Partnership Programs: This team solicits, manages, and delivers a variety of programs that engage and support residential customers across the PG&E territory in reducing and managing energy use in their homes. In addition, this team also manages Local Government Partnerships covering 30 counties across the PG&E territory. Local Government Partnerships support the Public and Small/Medium Business sectors (including cities, counties, public schools, special districts, higher education institutions and state government organizations) with programs and support including: identifying leads for EE resource programs, Greenhouse Gas Inventories, Energy Action Plans, Benchmarking, Green Building management education.

Organizations Outside EE that Support EE Activities

Application Management: Application Management processes deemed and partner rebates; and supports application processing for the financing programs.

Applied Technical Services (ATS): Applied Technology Services (ATS) provides a range of technology-based services across PG&E. These include chemical and site testing, civil and

mechanical engineering support, equipment testing and emerging technologies testing, and meteorology operations and analytics, among others.

Business Development & Customer Engagement (BDCE) Performance Reporting & Analysis: BDCE Performance Reporting & Analysis provides regulatory financial support, develops long-range financial plans for regulatory filings; facilitates the annual budget planning process and quarterly forecasting process; and provides financial support including benchmarking activities and audit support for all balancing accounts. Other functions performed by the team also include leading supplier diversity activities for Customer Care, supporting the Business Energy Solutions (BES) and Local Customer Experience (LCE) teams with performance management, quality assurance, process improvement, data mining, analysis, and reporting.

Business Energy Solutions (BES): BES manages relationships with PG&E's commercial, industrial, and agricultural customers, helping to manage business customers' energy and cost reduction and service-related needs. It is aligned along key market segments serving large customers and small/medium size businesses to respond to industry trends, customer needs and opportunities as well as provide service and product offerings.

Business Finance: Business Finance provides accounting and budgeting support to help manage spending and align it with regulatory and corporate priorities. Business Finance provides direct support for each assigned budget manager.

Central Inspections: The Central Inspection Program provides inspection verification of EE and ESA programs and products. CIP validates the physical installation and use of EE and ESA measures that were submitted on applications requesting rebates or incentives. Without the inspection/verification process the business is at risk due to not following CPUC/Business program guidelines and/or possible fraud by vendors or customer claiming rebates/incentives they are not authorized to receive.

Customer Care Business Operations: The Business Operations team supports all of Customer Care (including EE) with transactional financial management including posting invoices and accruals, contract management, quality assurance, compliance, process improvement, and reporting. The team is also responsible for developing and implementing customer privacy and governance, overseeing risk management, regulatory compliance, and leads various significant Customer Care-wide projects and manages their transition to operation (such as records management).

Customer Insights and Experience (CXI): Customer Insights & Experience serves as a resource for any PG&E department seeking information about customers for strategic and tactical decision-making purposes. The team conducts primary research regarding general customer behavior, attitudes, and profiles, or for specific programs, policies, and projects, maintains customer database and conducts data analysis, and delivers actionable insights and strategies at both the enterprise level and for individual business units.

Data and Energy Management Products: The Data and Energy Management Products team leverages data of all kinds to better serve customers; works across the organization to tackle cross-cutting strategic issues related to customer data access and data governance. It also develops, manages and coordinates PG&E’s broad portfolio of interval data-based research and analytical projects spanning Time Varying Rates, Distributed Generation and Energy Efficiency.

Energy Insight (System Administration): The System Administration team is responsible for developing and implementing the long-term strategy of energy efficiency platforms; maintaining existing energy efficiency platforms and integrating the Energy Insight platform into the business; developing a governance process across energy efficiency platforms; and partnering with IT to ensure projects and enhancements are aligned with our long-term strategy.

Information Technology (IT): The Information Technology organization designs, develops, operates, and maintains the technology and telecommunications systems that enable PG&E to meet its commitment to providing safe, reliable, and affordable service to customers. IT supports the business by improving service quality, increasing capabilities through the development of additional functionality, implementing new technologies, reducing costs, increasing productivity, and facilitating organizational and business effectiveness through enabling technologies.

Law: The Law Department provides advice, counsel, and representation of the Company. It provides actionable feedback to the lines of business to identify and reduce areas of risk, based on claims, lawsuits, and other legal activities.

Local Customer Experience (LCE): The Local Customer Experience team strengthens the outreach and program support offered to customers, communities, and internal partners by the Customer Impact team.

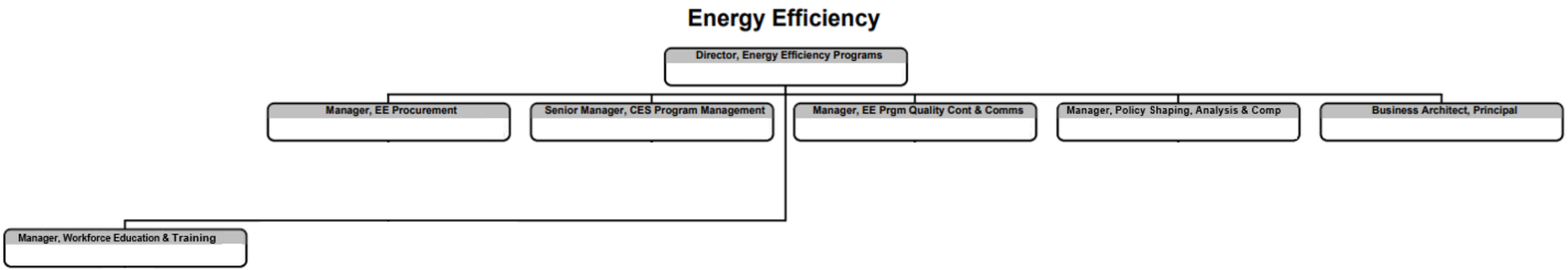
Call Center: PG&E operates 5 call centers throughout its service territory to respond to customer inquiries.

Smarter Energy Line (SEL): Smarter Energy Line (SEL) is a designated group of call center representatives that provide residential customers information about energy reduction, energy savings, rebates, energy efficient appliance options, Energy Partners, and PG&E's many program offerings. The team's main goal is "customer education" and providing targeted assistance to customers who have recently had their Energy Cost Inquiries resolved.

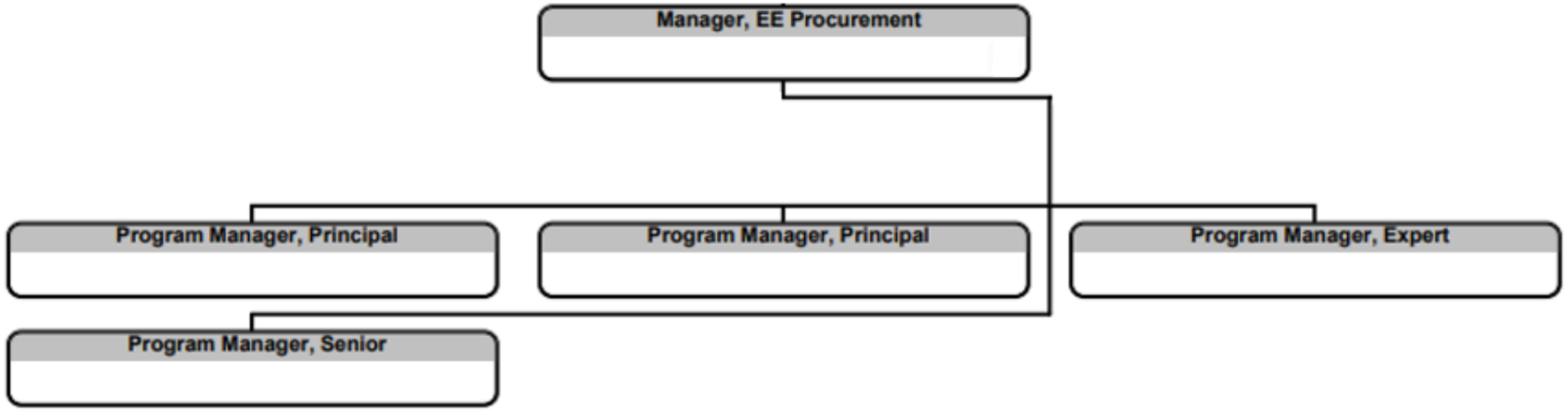
Solutions Marketing: Solutions Marketing collaborates with various CES groups to produce marketing campaigns and collateral and provide marketing support to deliver on its vision of elevating the importance of energy management to PG&E customers by offering them unique and simple solutions.

Sourcing: The Sourcing organization is the functional lead for the procurement of materials and services. The department collaborates with internal clients and suppliers to develop mutually beneficial total cost solutions for goods and services. To provide dedicated and expert service, the Sourcing organization is segmented into the following functional groups: Electric Sourcing, Gas Sourcing, IT Sourcing, and Generation Supply Chain.

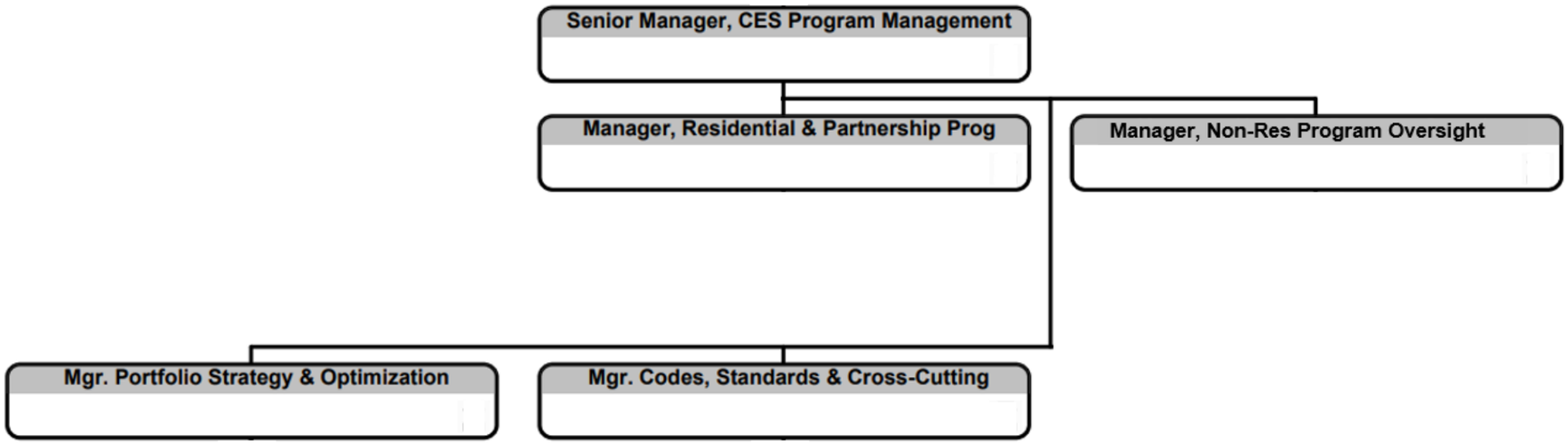
Appendix I.A.2.
PG&E's Energy Efficiency Department Organizational Charts as of October 6, 2021



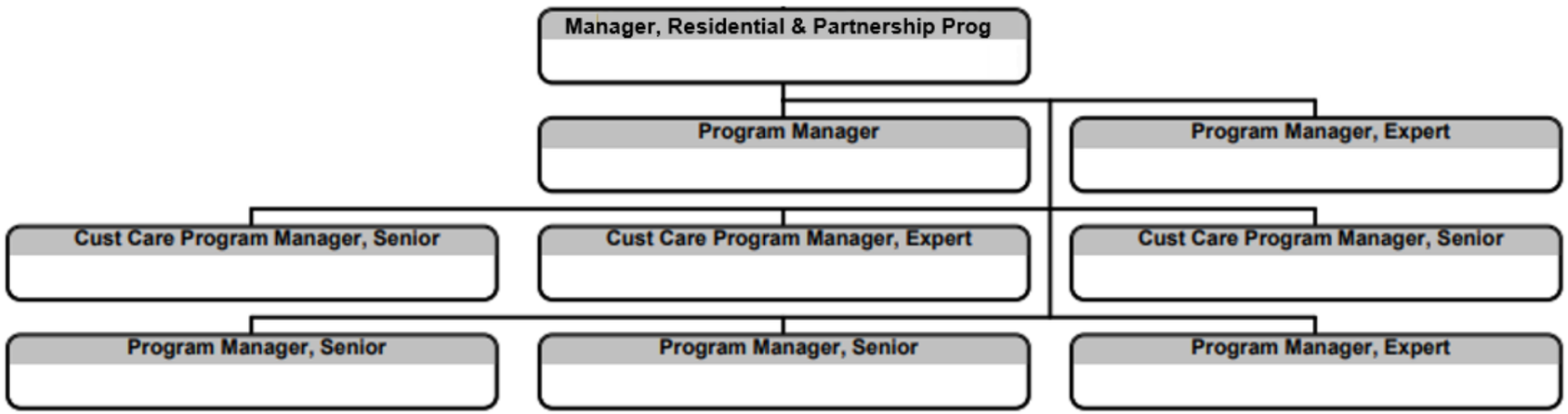
EE Procurement



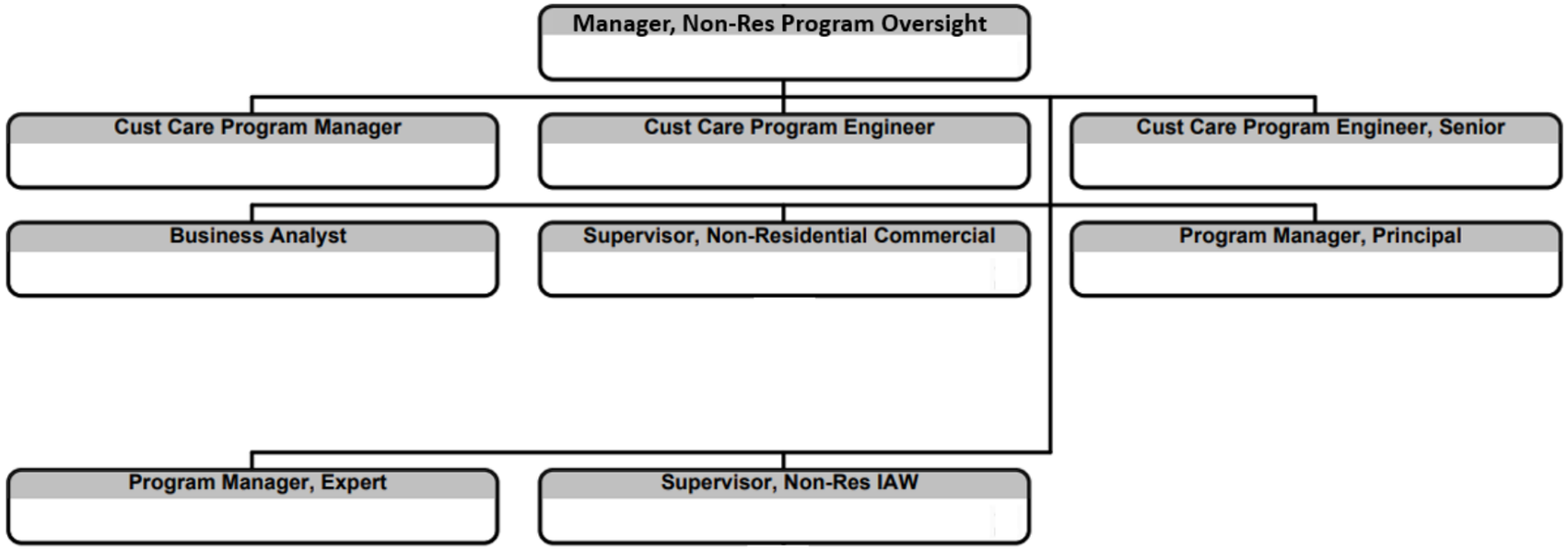
Portfolio Strategy & Program Oversight



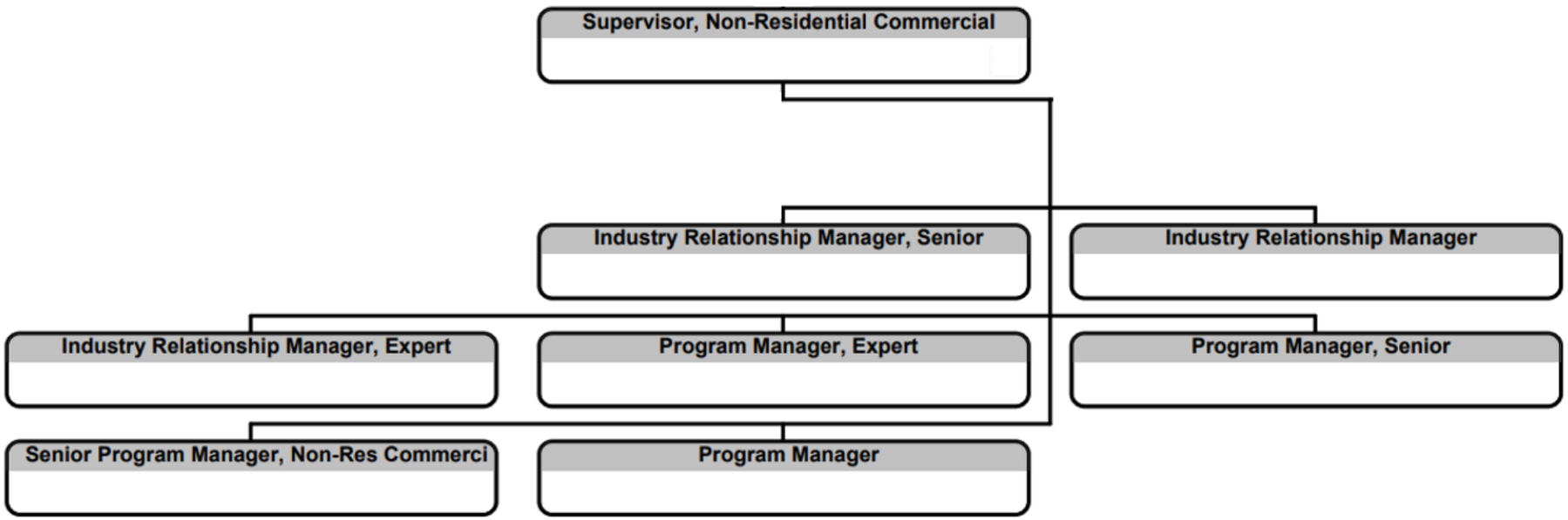
Residential & Partnership Programs



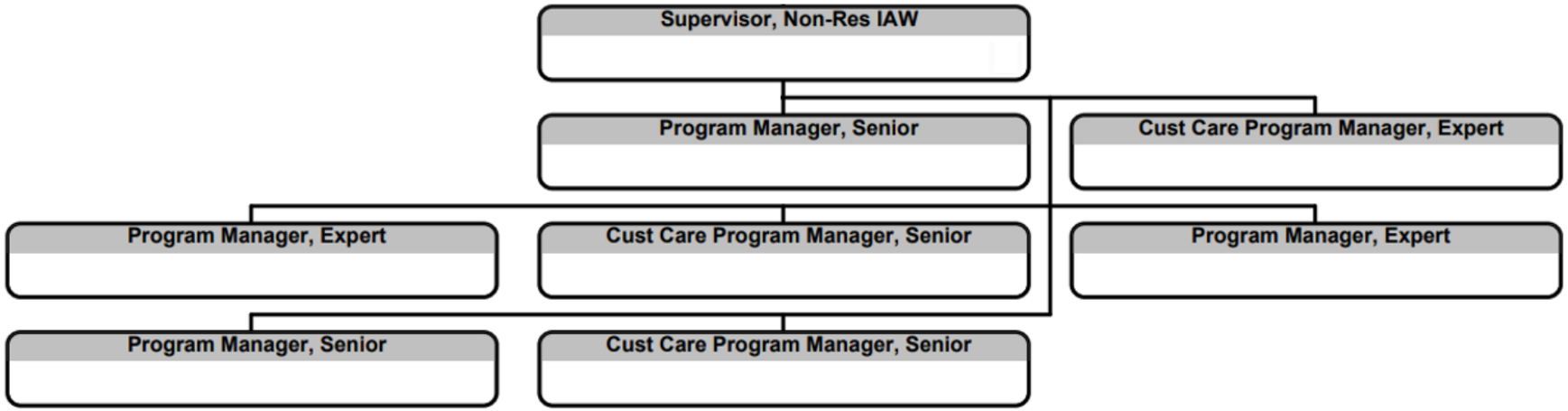
Non-Residential Program Oversight



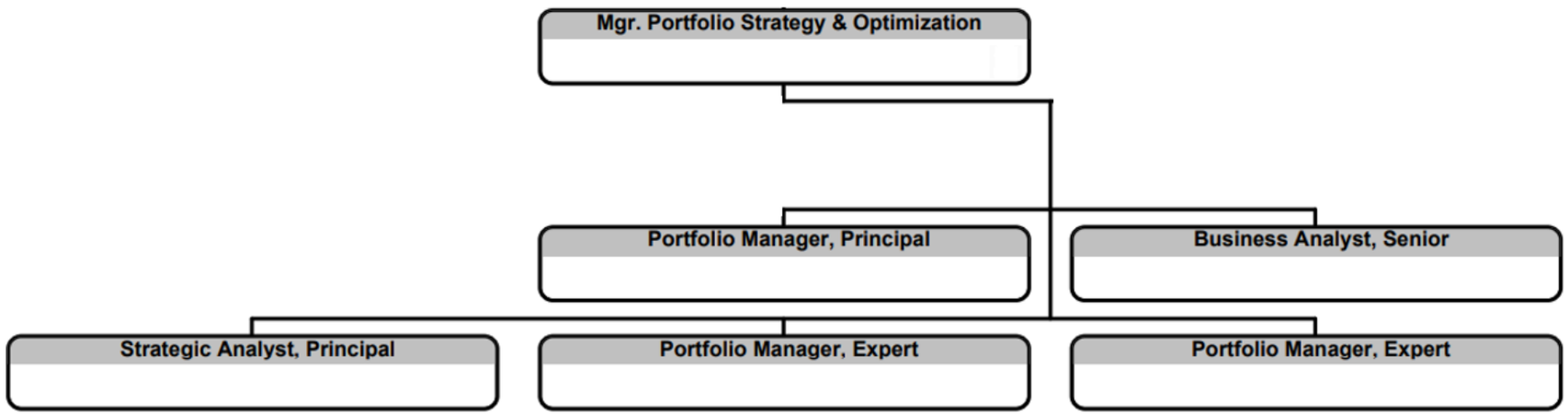
Non-Residential Commercial



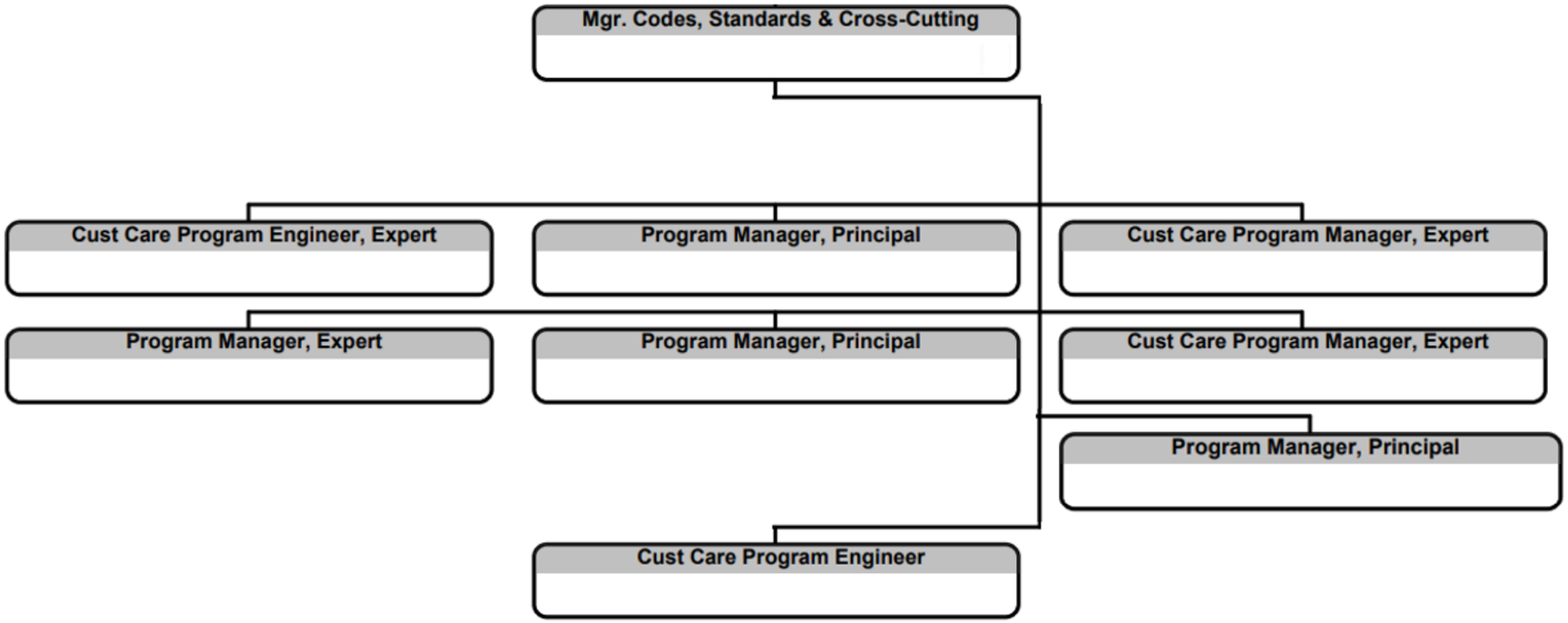
Non-Res IAW Programs



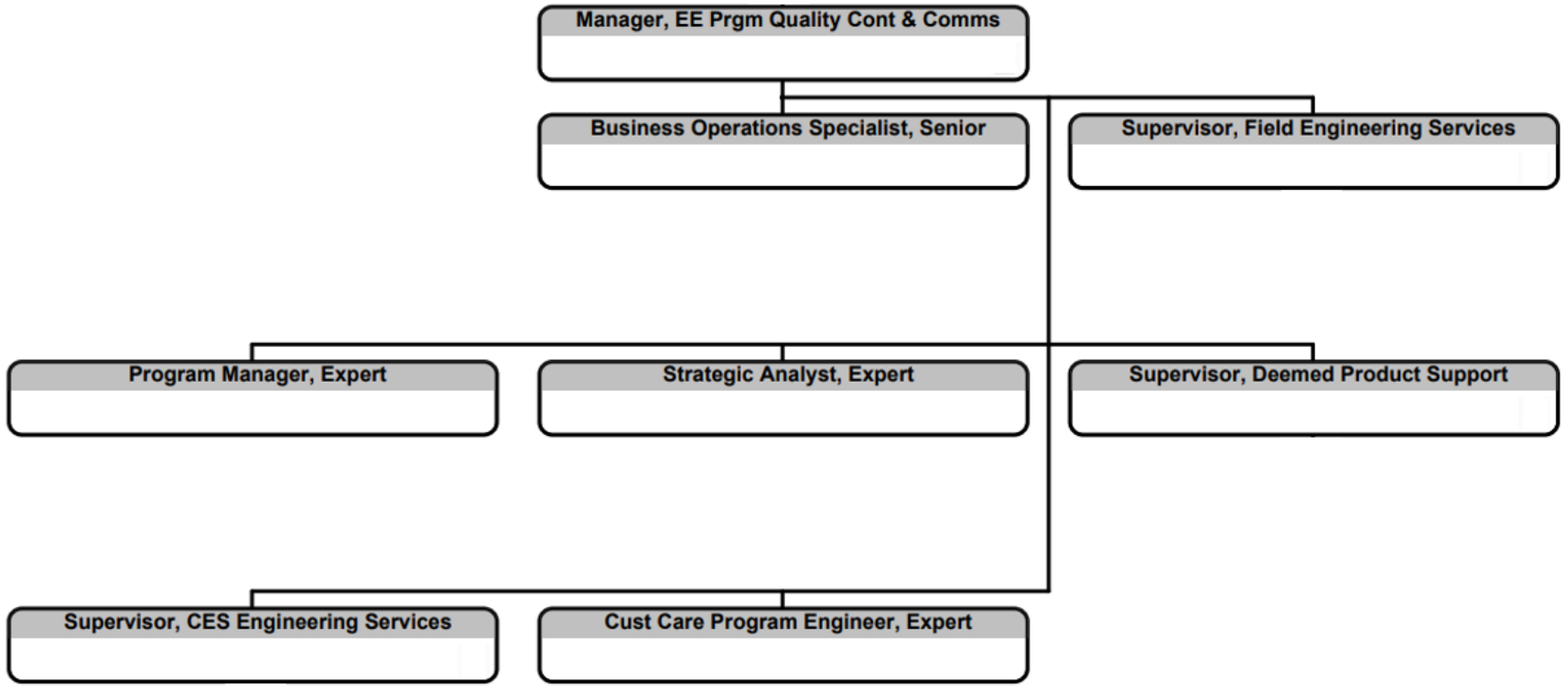
EE Portfolio Strategy & Optimization



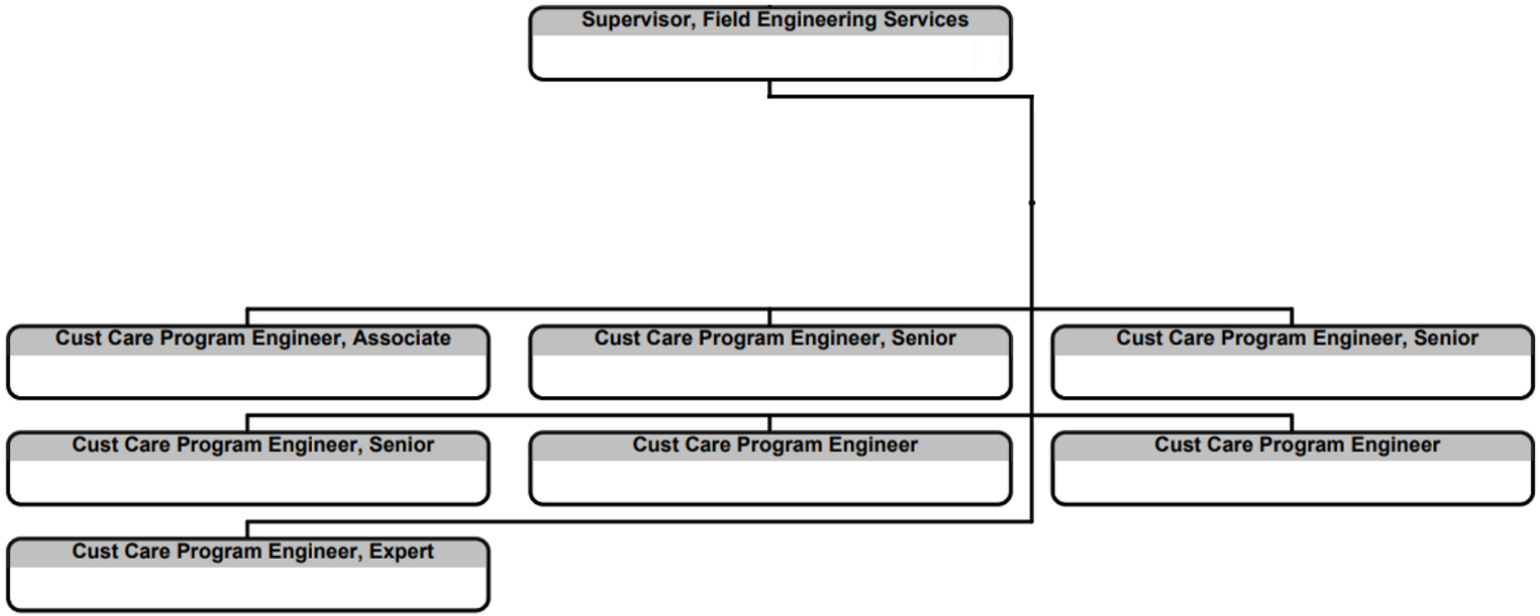
Codes, Standards & Cross-Cutting



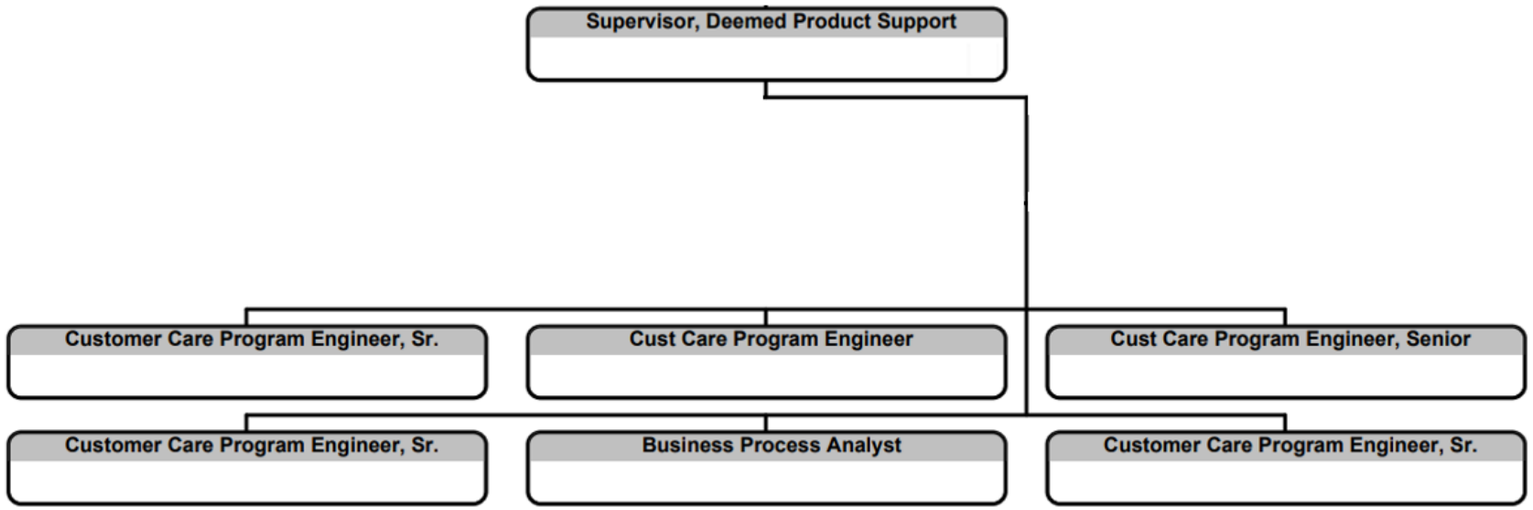
EE Prgm Quality Control & Communications



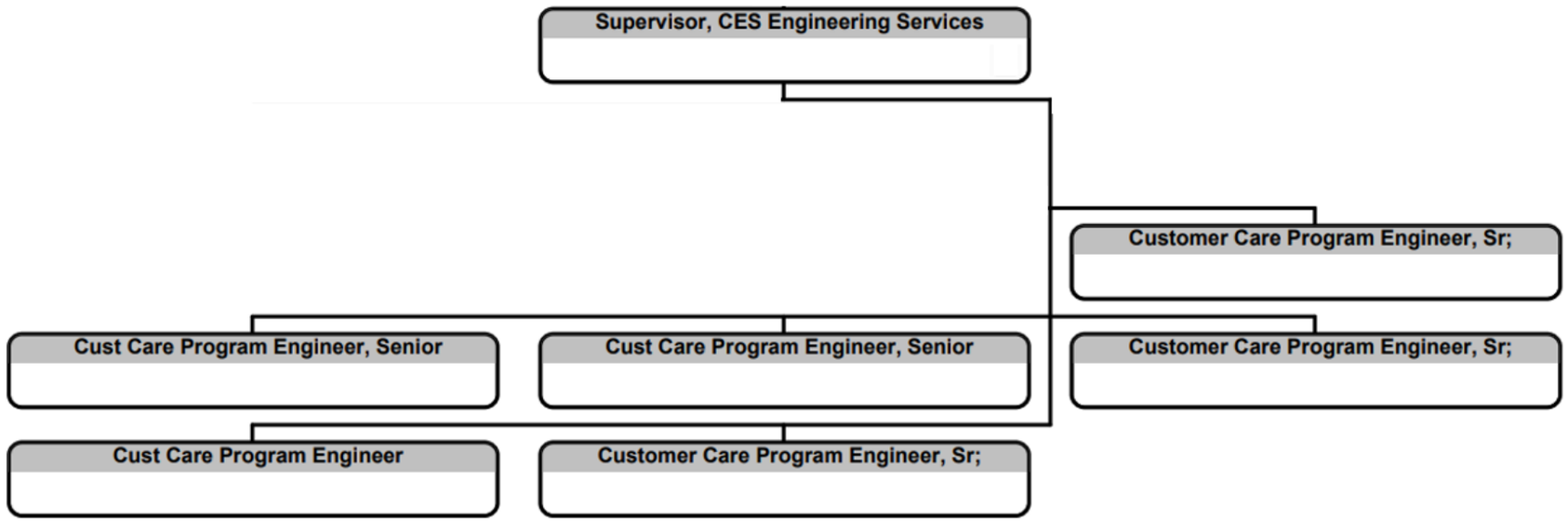
EE Oversight, Verification and Engineering



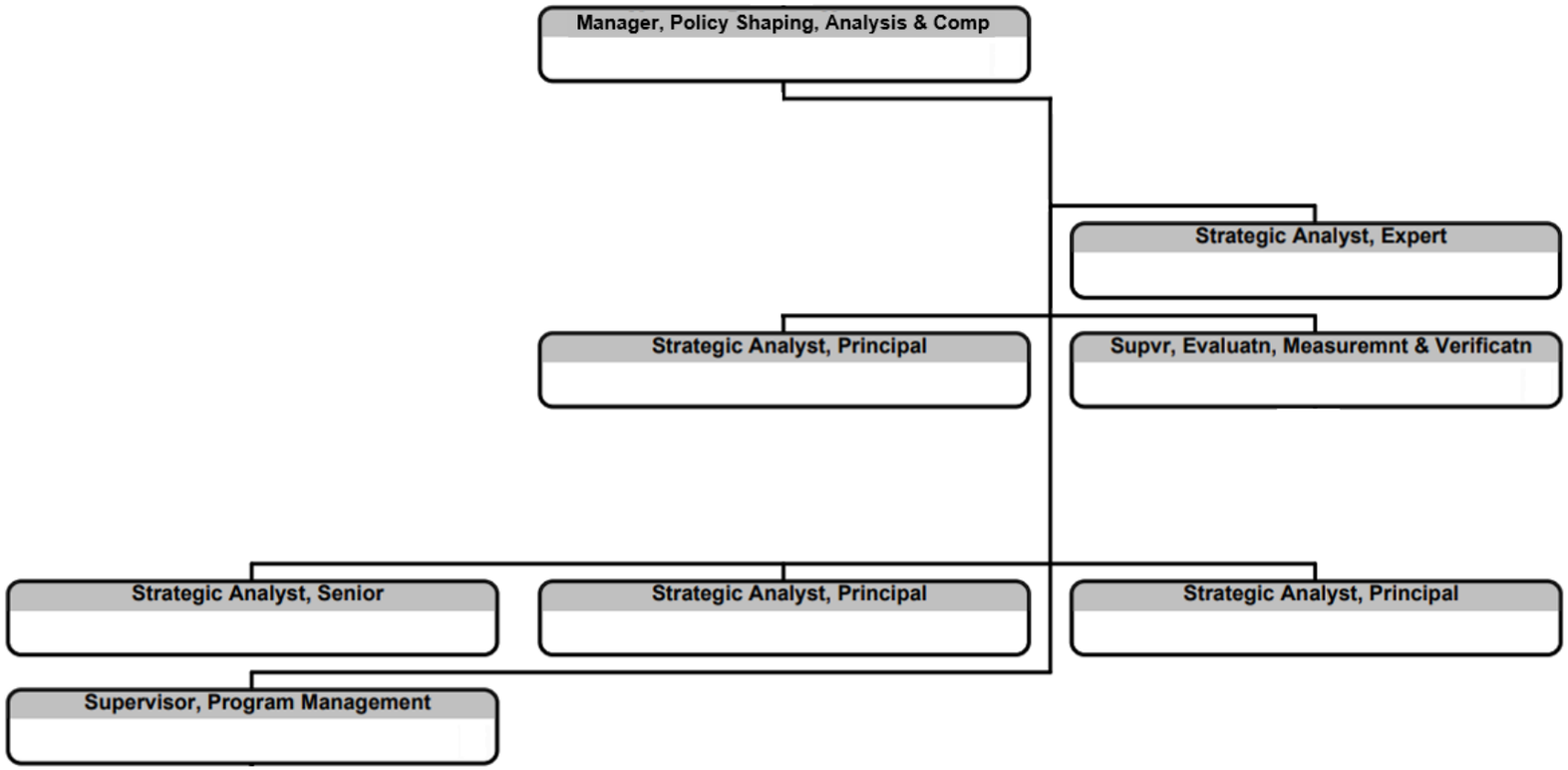
Deemed Product Support



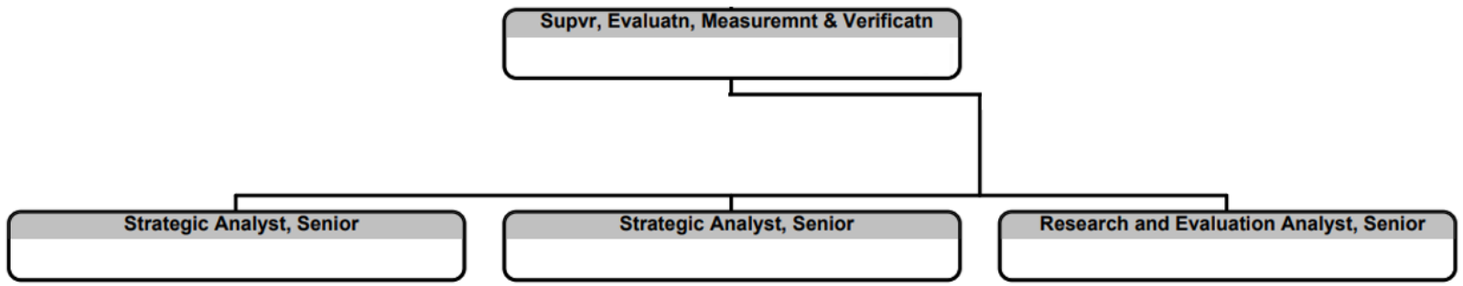
Custom Implementation



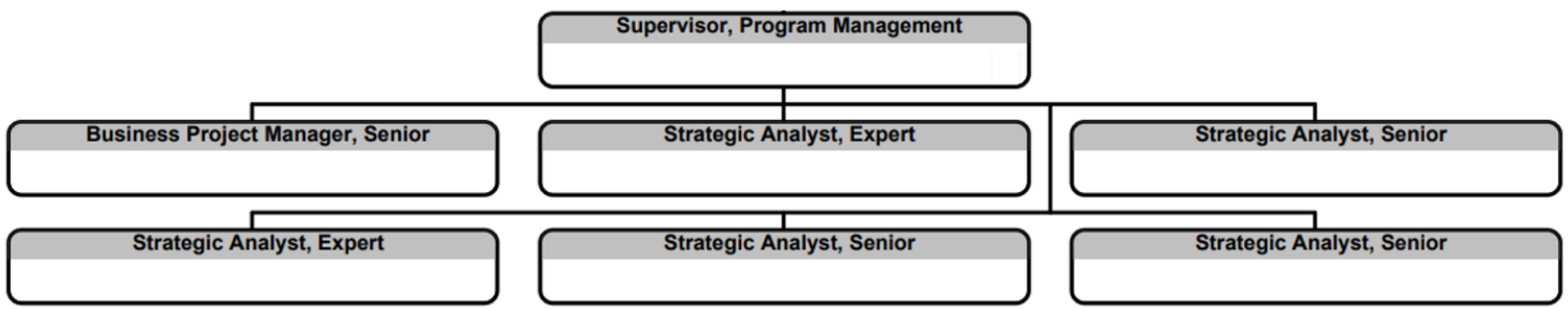
Policy Shaping, Analysis & Compliance



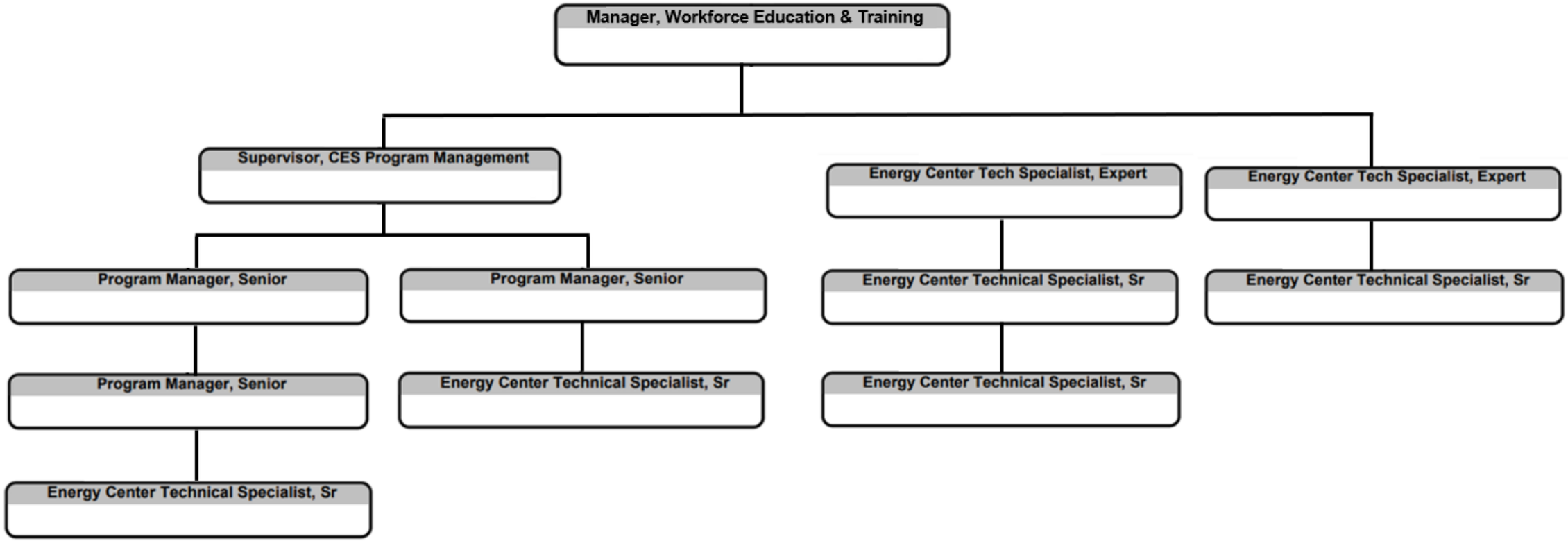
EE Evaluation



Reporting and Compliance



Workforce Education & Training



Organizations Outside of EE

- Application Management
- Applied Technical Services
- BDCE Performance Reporting & Analysis
- Business Energy Solutions
- Business Finance
- Central Inspections
- Customer Care Business Operations
- Customer Insights and Experience
- Data and Energy Management Products
- Energy Insight (System Administration)
- IT
- Law
- Local Customer Experience
- Call Center
- Smarter Energy Line
- Solutions Marketing
- Sourcing

Appendix I.A.5.
Drivers of In-House Cost Changes

Sector	Cost Element	Functional Group	2020 EE Expenditures ($Million)	2022 EE Budget ($Million)	Difference (2020 vs. 2022)	2023 EE Budget ($Million)	Difference (2022 vs. 2023)	Drivers
PG&E Portfolio including EM&V and excluding OBF Loan Pool	Labor (1)	Policy, Strategy, and Regulatory Reporting Compliance	$4.4	$4.4	$0.0	$4.6	$0.2	Absorbing costs for continued additional activity related to SW programs and 3P outsourcing implementation; increased coordination activities with REN/CCA PAs; implementation of D.21-05-031 and move to TSB metric; increasing coordination with other DSM programs due to IDSM efforts and cross-cutting initiatives such as reliability and electrification.
		Program Management	$13.8	$14.3	$0.5	$14.9	$0.5	Slight increase primarily due to annual labor escalation.
		Engineering services	$7.3	$6.8	-$0.5	$6.9	$0.1	Less engineering support needed for CORE custom project development due to increase in 3P programs.
		Customer Application/Rebate/Incentive Processing	$1.5	$1.2	-$0.2	$1.3	$0.0	Reduction in rebate processing as volume is lower.
		Customer Project Inspections	$0.3	$0.7	$0.5	$0.7	$0.0	2020 inspections were lower than anticipated due to COVID-19 restrictions.
		Portfolio Analytics	$0.2	$0.2	$0.0	$0.2	$0.0	Immaterial
		ME&O (Local)	$1.8	$1.7	-$0.1	$1.8	$0.0	Immaterial
		Account Management / Sales	$7.4	$6.0	-$1.5	$6.2	$0.2	Overall reduction in account management as Portfolio transitions to 3rd party implemented. Implementers plan to continue leveraging certain services (i.e. customer lead generation, customer escalations) and relying less on account representatives to perform project management.
		IT	$2.6	$2.5	-$0.1	$2.7	$0.2	Total IT forecast (labor + non-labor) was lowered in 2022 to offset higher-than-anticipated costs to set up NMEC processes in 2020 and 2021. Maintained higher IT budget for 2023 to cover new and/or continuing IT work expected to be necessary to administer the EE portfolio (e.g., implementing TSB and SW program administration).
		Call Center	$0.4	$0.5	$0.0	$0.5	$0.0	Immaterial
		EM&V	$1.5	$1.2	-$0.3	$1.2	$0.0	Reductions in demand for PG&E-led EM&V studies due to increasing statewide coordination/SW program implementation and slowing of cadence of future impact evaluations; need for NMEC support from EM&V driving changes in the nature of the work.
	Labor Total		$41.2	$39.6	-$1.7	$40.9	$1.3	2022 reduction includes absorbing two years of annual labor escalation. If two years of escalation are applied 2020 labor

							expenditures ($41.2M x 1.0302 x 1.0352 = $44.0M), the 2020 vs. 2022 labor difference would be about $4.4M.[2]

Sector	Cost Element	Functional Group	2020 EE Expenditures ($Million)	2022 EE Budget ($Million)	Difference (2020 vs. 2022)	2023 EE Budget ($Million)	Difference (2022 vs. 2023)	Drivers
	Non-Labor	Third-Party Implementer Contracts (as defined per D.16-08-019, OP 10)	$23.6	$79.9	$56.3	$101.5	$21.6	N/A as these are outsourced costs, and the question asks for drivers of in-house costs.
		Local/Government Partnerships Contracts	$4.9	$0.0	-$4.9	$0.0	$0.0	N/A as these are outsourced costs, and the question asks for drivers of in-house costs.
		Other Contracts						
		Program Implementation	$48.3	$28.5	-$19.8	$23.2	-$5.3	Reduced existing programs' contracts spend to make room for new third-party and statewide contracts.
		Policy, Strategy, and Regulatory Reporting Compliance	$0.9	$1.1	$0.1	$1.1	$0.0	Immaterial.
		Program Management	$2.1	$1.7	-$0.3	$1.7	$0.0	Decrease in contract spend for independent evaluators, less solicitations work expected in 2022 and 2023.
		Engineering services	$5.2	$4.8	-$0.4	$4.8	$0.0	Reduction in custom review and workpaper QC contracts; offset by increase for Financing technical review and NMEC QC contracts.
		Customer Application/Rebate/Incentive Processing	$0.1	$0.1	$0.0	$0.1	$0.0	Immaterial.
		Customer Project Inspections	$0.0	$0.0	$0.0	$0.0	$0.0	Immaterial.
		Portfolio Analytics	$0.1	$0.0	-$0.1	$0.0	$0.0	Immaterial.
		ME&O (Local)	$5.3	$4.2	-$1.1	$4.0	-$0.2	Reduction in Marketing costs as Portfolio transitions to 3rd party implemented and implementers take on more of the marketing efforts of their respective programs.
		Account Management / Sales	$0.0	$0.0	$0.0	$0.0	$0.0	Immaterial.
		IT	$6.6	$5.3	-$1.3	$5.8	$0.5	Total IT forecast (labor + non-labor) was lowered in 2022 to offset higher-than-anticipated costs to set up NMEC processes in 2020 and 2021. Maintained higher IT budget for 2023 to cover new and/or continuing IT work that may be needed to administer the EE portfolio (e.g., implementing TSB and SW program administration).
		Call Center	$0.0	$0.0	$0.0	$0.0	$0.0	Immaterial.
		EM&V	$13.4	$8.7	-$4.6	$9.8	$1.0	EM&V budgets are set at 4% and spend typically occurs in future years.
		Facilities						Included in Labor.

Sector	Cost Element	Functional Group	2020 EE Expenditures ($Million)	2022 EE Budget ($Million)	Difference (2020 vs. 2022)	2023 EE Budget ($Million)	Difference (2022 vs. 2023)	Drivers
		Incentives--(PA-Implemented and Other Contracts Program Implementation) Programs	$35.7	$16.8	-$18.9	$7.0	-$9.8	Reduced existing programs' contracts & incentives spend to make room for new third-party and statewide contracts.
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$2.3	$43.0	$40.7	$57.7	$14.8	N/A as these are outsourced costs, and the question asks for drivers of in-house costs.
	Non-Labor Total		$148.6	$194.1	$45.5	$216.8	$22.7	
Total			$189.8	$233.7	$43.8	$257.6	$24.0	
	Other (collected through GRC) (2)	Labor Overheads	$5.8	$5.4	-$0.4	$5.6	$0.2	2022 and 2023 benefits burden amounts represent estimated benefits burden expenditures. This estimate is calculated based on 2020 expenditures, reduction in 2022 & 2023 FTEs forecast from 2020 FTEs, and 3.52% forecast annual inflation. The 2022 figure has been determined through 2020 General Rate Case (GRC) D.20-12-005 while the final figure for 2023 may change depending on the final amounts or methodology approved by the Commission as part of PG&E's 2023-2026 GRC.

Notes:
(1) Labor costs are already loaded with employee benefits costs.
(2) These labor escalation rates are consistent with the amounts included in PG&E's 2023 GRC, which were based on the Labor Agreements PG&E has in place through December 31, 2025 and 2019-2020 United States WorldatWork Salary Budget Survey.
(3) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.

Appendix I.B.
Energy Efficiency "Full Time Equivalent" Headcount:
Portfolio Staffing

Functional Group	2020 EE Portfolio FTE	2022 EE Portfolio FTE	2023 EE Portfolio FTE
Policy, Strategy, and Regulatory Reporting Compliance	23.5	20.8	20.8
Program Management	70.9	67.6	67.6
Engineering Services	35.8	31.1	31.1
Customer Application/Rebate/Incentive Processing	11.9	11.3	11.3
Customer Project Inspections	1.8	4.9	4.9
Portfolio Analytics	1.1	1.1	1.1
EM&V	6.2	5.4	5.4
ME&O	8.2	6.4	6.2
Account Management / Sales	48.2	32.2	32.2
IT	13.9	11.3	11.8
Call Center	1.2	2.0	2.0
Total	222.8	194.0	194.4

Notes:
(1) FTE is equal to productive labor of 1503 hour per year, with the exception of the Account Management/Sales which equals 1326 hours per year.

Appendix I.C.
Costs by Functional Area of Management Structure

FUNCTION DEFINITIONS
RESIDENTIAL BUDGET DETAIL
COMMERCIAL BUDGET DETAIL
AGRICULTURAL BUDGET DETAIL
INDUSTRIAL BUDGET DETAIL
PUBLIC SECTOR BUDGET DETAIL
CROSS-CUTTING BUDGET DETAIL.

Aggregated Category	Definition	Functional Category	Detailed Definition
Policy, Strategy, and Regulatory Reporting Compliance	Includes policy, strategy, compliance, audits and regulatory support	Planning & Compliance	Demand Side Management (DSM) Goal Planning; lead legislative review/positioning; policy support on reg proceedings; portfolio optimization; end use-market strategy; DSM lead for PRP, DRP, ES; locational targeting; audit support; Sarbanes-Oxley (SOX) certifications; developing control plans; developing action plans; continuous monitoring; inspections; program/product QA/QC; decision compliance oversight/tracking; data requests; policies & procedures
		Company Regulatory Support	Case management for EE proceedings
Program management	Includes labor, contracts, admin costs for program design, program implementation, product and channel management for all sectors	Program Management & Delivery	Market Segment & Locational Resource programs; Business Core & Finance Programs; Large Power DR Programs; Non-Residential Heating, Ventilation, Air Conditioning (HVAC) & Technical Services; Program Integration & Optimization; Residential EE & Demand Response (DR) Programs (incl. Res HVAC Quality Installation); IQP & Economic Assistance Programs; Mass Market DR Programs; Education & Information Products & Services; Energy Leader Partnerships; Institutional & Federal Partnerships; REN Coordination; Strategic Plan Support; Energy/Water Program Management; Service Level Agreement Tracking
		Product Management	Manage end-to-end new products and services (P&S) intake, evaluation, and launch process; develop and facilitate P&S governance teams, coordination of all sub-process owners, stakeholders, and technical resources required to evaluate and launch new products; evaluate and launch new services and OOR opportunities; develop external partnerships & strategic alliances; work with various companies and associations to help advance standards, products, and tech.; work with external experts to help reduce SCE costs to deliver new prog. and products; develop and launch new customer technologies, products, services for residential and business customers; conduct customer pilots of new technologies and programs; lead customer field demonstrations of new technologies and products; align new P&S to savings programs/incentives; develop new programs/incentives in support of savings goals
		Channel Management	
		Contract Management	Budget forecasting, spend tracking, invoice processing, and contract management with vendors and suppliers; Regulatory support for ME&O activities
Engineering Services	Includes engineering, project management, and contracts associated with workpaper development and pre/post sales project technical reviews and design assistance	Custom project support	Management of Emerging Products projects; Customized reviews; LCR/RFO support; Ex-ante review management; Technical policy support; Technical assessments; Workpapers; Tool development; End use subject matter expertise
		Deemed workpapers	
		Project management	

Aggregated Category	Definition	Functional Category	Detailed Definition
Customer Application/Rebate and Incentive Processing	Costs associated with application management and rebate and incentive processing (deemed and custom)	Rebate & Application Processing	
Inspections	Costs associated with project inspections	Inspections	
Portfolio Analytics	Includes analytics support, including internal performance reporting and external reporting	Data analytics	Data development for programs, products and services; Standard and ad hoc data extracts for internal and external clients; Database management; CPUC, CAISO reporting; Data reconciliation; E3 support; Compliance filing support; Funding Oversight; ESPI support; Program Results Data & Performance
EM&V	EM&V expenditures	EM&V Studies	Program and product review; manage evaluation studies
		EM&V Forecasting	EE lead for LTPP and IEPR; market potential study; integration w/ procurement planning; CPUC Demand Analysis Working Group
ME&O	Costs associated with utility EE marketing; no statewide; focus on outsourced portion	Marketing	Customer Programs, Products, and Services Marketing; Digital Product Development; Digital Content & Optimization
		Customer insights	Voice of the Customer; Customer satisfaction study measurement and analysis (JD Power, SDS); Customer testing/research
Account Management / Sales	Costs associated with account rep energy efficiency sales functions	Account Management	
IT	IT project specific costs and regular O&M	IT - project specific	Projects and minor enhancements. Includes project management/business integration ("PMO/BID"). Excluded: maintenance (which SCE defines as when something goes down, normal batch processing, verifying interfaces, etc.).
		IT – regular operations & maintenance	
Call Center	Costs associated with call center staff fielding EE program questions	Call Center	
Incentives	Costs of rebate and incentive payments to customers	Incentives	

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures ($Million)	2022 EE Portfolio Budget ($Million)	2023 EE Portfolio Budget ($Million)
Residential	Labor (1)	Policy, Strategy, and Regulatory Reporting Compliance	$1.3	$1.0	$1.1
		Program Management	$2.5	$2.3	$2.4
		Engineering services	$0.1	$0.3	$0.4
		Customer Application/Rebate/Incentive Processing	$0.2	$0.3	$0.2
		Customer Project Inspections	$0.0	$0.2	$0.1
		Portfolio Analytics	$0.1	$0.0	$0.1
		ME&O (Local)	$0.4	$0.6	$0.6
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$0.8	$0.9	$0.9
		Call Center	$0.4	$0.1	$0.1
	Labor Total		$5.8	$5.8	$6.0
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$13.5	$26.7	$33.6
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$4.4	$1.3	$0.5
		Policy, Strategy, and Regulatory Reporting Compliance	$0.4	$0.2	$0.3
		Program Management	$0.5	$0.3	$0.3
		Engineering services	$0.2	$0.5	$0.6
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$2.1	$2.1	$2.0
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$1.9	$1.5	$1.7
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$6.9	$2.7	$0.0
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$2.0	$7.5	$9.4
	Non-Labor Total		$31.8	42.9	48.3
Residential Total			$37.7	$48.7	54.3
	Other (litigated through GRC) (2)	Labor Overheads	$0.8	$0.8	0.8

Notes: (1) Labor costs are already loaded with employee benefits costs.

(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures ($Million)	2022 EE Portfolio Budget ($Million)	2023 EE Portfolio Budget ($Million)
Commercial	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$0.9	$0.7	$0.9
		Program Management	$1.9	$2.3	$2.5
		Engineering services	$1.9	$0.9	$1.1
		Customer Application/Rebate/Incentive Processing	$0.3	$0.4	$0.5
		Customer Project Inspections	$0.2	$0.3	$0.3
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.8	$0.7	$0.7
		Account Management / Sales	$2.8	$3.5	$3.7
		IT	$0.7	$0.3	$0.5
		Call Center	$0.0	$0.1	$0.1
	Labor Total		$9.6	$9.2	$10.1
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$0.9	$18.1	$23.3
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$11.6	$0.2	$0.3
		Policy, Strategy, and Regulatory Reporting Compliance (3)	-$0.1	$0.2	$0.2
		Program Management	$0.3	$0.2	$0.2
		Engineering services	$2.0	$1.1	$0.7
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$1.5	$1.4	$1.4
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$1.8	$0.8	$1.1
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$15.4	$1.3	$1.3
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.0	$21.4	$25.6
	Non-Labor Total		$33.4	$44.7	54.1
Commercial Total			$43.0	$53.8	$64.2
	Other (litigated through GRC) (2)	Labor Overheads	$1.3	$1.3	$1.4

Notes:

(1) Labor costs are already loaded with employee benefits costs.

(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.

(3) Negative incentives primarily represent a reversal of an accrual from the previous year.

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures ($Million)	2022 EE Portfolio Budget ($Million)	2023 EE Portfolio Budget ($Million)
Industrial	Labor (1)	Policy, Strategy, and Regulatory Reporting Compliance	$0.5	$0.9	$0.7
		Program Management	$1.3	$2.0	$2.0
		Engineering services	$1.8	$2.7	$2.2
		Customer Application/Rebate/Incentive Processing	$0.1	$0.2	$0.2
		Customer Project Inspections	$0.0	$0.1	$0.1
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.1	$0.1	$0.1
		Account Management / Sales	$1.4	$0.6	$0.6
		IT	$0.4	$0.4	$0.4
		Call Center	$0.0	$0.1	$0.1
	Labor Total		$5.6	$7.2	$6.4
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$0.8	$7.6	$8.0
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$8.8	$5.6	$4.3
		Policy, Strategy, and Regulatory Reporting Compliance	$0.2	$0.2	$0.2
		Program Management	$0.2	$0.2	$0.2
		Engineering services	$0.6	$1.1	$1.3
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.1	$0.0	$0.0
		ME&O (Local)	$0.2	$0.1	$0.1
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$1.0	$1.0	$0.8
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$1.9	$10.0	$4.7
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.3	$6.3	$7.5
	Non-Labor Total		$14.0	$32.2	$27.1
Industrial Total			$19.6	$39.4	$33.4
	Other (litigated through GRC) (2)	Labor Overheads	$0.8	$1.0	$0.9

Notes: (1) Labor costs are already loaded with employee benefits costs.
(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures ($Million)	2022 EE Portfolio Budget ($Million)	2023 EE Portfolio Budget ($Million)
Agricultural	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$0.3	$0.3	$0.5
		Program Management	$0.6	$0.7	$0.9
		Engineering services	$0.8	$0.3	$0.5
		Customer Application/Rebate/Incentive Processing	$0.1	$0.1	$0.2
		Customer Project Inspections	$0.0	$0.1	$0.1
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.2	$0.0	$0.1
		Account Management / Sales	$1.0	$0.5	$0.5
		IT	$0.2	$0.2	$0.3
		Call Center	$0.0	$0.0	$0.1
	Labor Total		$3.1	$2.4	$3.1
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$0.5	$5.3	$8.4
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$1.0	$0.0	$0.0
		Policy, Strategy, and Regulatory Reporting Compliance	$0.1	$0.1	$0.1
		Program Management	$0.1	$0.1	$0.1
		Engineering services	$0.4	$0.2	$0.2
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.4	$0.1	$0.1
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$0.4	$0.4	$0.6
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$5.6	$0.9	$0.6
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.1	$4.8	$8.6
	Non-Labor Total		$8.5	$11.9	$18.9
Agricultural Total			$11.6	$14.3	$22.0
	Other (litigated through GRC) (2)	Labor Overheads	$0.4	$0.3	$0.4

Notes: (1) Labor costs are already loaded with employee benefits costs.
(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.
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Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures ($Million)	2022 EE Portfolio Budget ($Million)	2023 EE Portfolio Budget ($Million)
Public	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$0.5	$0.5	$0.5
		Program Management	$1.7	$1.6	$1.7
		Engineering services	$0.9	$0.2	$0.4
		Customer Application/Rebate/Incentive Processing	$0.1	$0.1	$0.2
		Customer Project Inspections	$0.0	$0.1	$0.1
		Portfolio Analytics	$0.1	$0.0	$0.0
		ME&O (Local)	$0.0	$0.1	$0.1
		Account Management / Sales	$1.2	$0.4	$0.4
		IT	$0.4	$0.2	$0.2
		Call Center	$0.0	$0.0	$0.1
	Labor Total		$4.8	$3.4	$3.7
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$1.3	$7.2	$10.2
		Local/Government Partnerships Contracts (3)	$4.9	$0.0	$0.0
		Other Contracts			
		Program Implementation	$2.8	$1.1	$0.0
		Policy, Strategy, and Regulatory Reporting Compliance	$0.1	$0.1	$0.1
		Program Management	$0.2	$0.1	$0.1
		Engineering services	$0.3	$0.1	$0.2
		Customer Application/Rebate/Incentive Processing	$0.0	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.1	$0.0	$0.0
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$0.9	$0.5	$0.6
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$5.9	$1.8	$0.4
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.0	$2.9	$6.7
	Non-Labor Total		$16.6	$13.9	$18.3
Public Total			$21.5	$17.3	$22.0
	Other (litigated through GRC) (2)	Labor Overheads	$0.7	$0.5	$0.5

Notes:
(1) Labor costs are already loaded with employee benefits costs.
(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.
(3) LGP contracts that directly support the sector is included/not included in this item

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures ($Million)	2022 EE Portfolio Budget ($Million)	2023 EE Portfolio Budget ($Million)
Cross-cutting	Labor (1)	Policy, Strategy, and Regulatory Reporting Compliance	$0.9	$1.0	$0.9
		Program Management	$5.7	$5.3	$5.4
		Engineering services	$1.9	$2.4	$2.2
		Customer Application/Rebate/Incentive Processing	$0.8	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.3	$0.3	$0.3
		Account Management / Sales	$1.1	$0.9	$0.9
		IT	$0.1	$0.5	$0.4
		Call Center	$0.0	$0.1	$0.1
	Labor Total		$10.9	$10.5	10.3
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	$6.4	$14.9	$17.9
		Local/Government Partnerships Contracts	$0.0	$0.0	$0.0
		Other Contracts			
		Program Implementation	$19.9	$20.3	$18.1
		Policy, Strategy, and Regulatory Reporting Compliance	$0.3	$0.2	$0.2
		Program Management	$0.8	$0.9	$0.8
		Engineering services	$1.7	$1.9	$1.8
		Customer Application/Rebate/Incentive Processing	$0.1	$0.0	$0.0
		Customer Project Inspections	$0.0	$0.0	$0.0
		Portfolio Analytics	$0.0	$0.0	$0.0
		ME&O (Local)	$0.9	$0.5	$0.5
		Account Management / Sales	$0.0	$0.0	$0.0
		IT	$0.6	$1.1	$1.1
		Call Center	$0.0	$0.0	$0.0
		Facilities	$0.0	$0.0	$0.0
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$0.1	$0.0	$0.0
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	$0.0	$0.0	$0.0
	Non-Labor Total		$30.8	39.8	40.4
Cross-cutting Total			$41.6	50.3	50.7
	Other (litigated through GRC) (2)	Labor Overheads	$1.5	1.4	1.4

Notes: (1) Labor costs are already loaded with employee benefits costs.
(2) These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.20-12-005) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2020-2022, issue date of December 11, 2020.

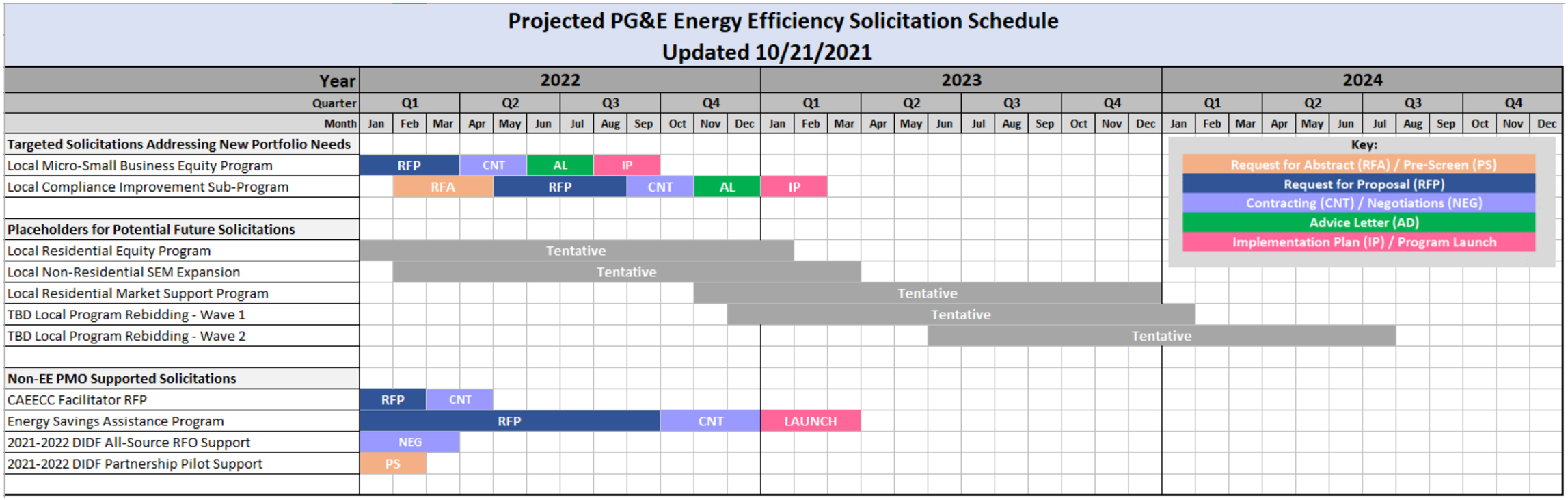
Appendix II.A.
Question C-8:
Portfolio Summary

	2020 EE Portfolio Expenditures				2022 EE Portfolio Budget				2023 EE Portfolio Budget				2020 EE Portfolio Savings**			2022 EE Portfolio Forecasted Savings			2023 EE Portfolio Forecasted Savings		
Sector	Labor	Non-Labor (excl. Incentives)	Incentives	Total	Labor	Non-Labor (excl. Incentives)	Incentives	Total	Labor	Non-Labor (excl. Incentives)	Incentives	Total	KWH	KW	MTHERMS	KWH	KW	MTHERMS	KWH	KW	MTHERMS
Residential	6,251,358	22,589,672	8,824,687	**37,665,716**	$ 5,788,257	$ 32,641,560	10,275,381	**48,705,198**	$ 6,034,277	$ 38,883,407	9,391,765	**54,309,449**	166,220,003	32,293	6,593,080	222,067,807	45,505	7,297,100	245,687,410	48,750	8,431,319
Commercial	9,914,052	17,742,019	15,365,547	**43,021,618**	$ 9,170,665	$ 21,979,573	22,695,963	**53,846,200**	$ 10,134,552	$ 27,244,217	26,867,164	**64,245,934**	55,286,644	8,659	2,709,667	54,927,666	9,280	2,521,925	62,066,717	11,375	3,206,227
Industrial	5,741,537	11,727,261	2,130,443	**19,599,241**	$ 7,165,119	$ 15,850,879	16,368,325	**39,384,322**	$ 6,385,844	$ 14,897,243	12,159,710	**33,442,797**	32,835,520	3,241	4,859,164	68,148,287	4,834	7,918,382	60,134,968	5,445	5,456,183
Agricultural	3,153,258	2,805,832	5,648,980	**11,608,069**	$ 2,398,414	$ 6,143,254	5,740,451	**14,282,120**	$ 3,099,202	$ 9,615,088	9,242,015	**21,956,306**	12,611,015	4,664	925,398	22,662,909	2,666	135,042	33,668,315	3,818	234,307
Public	5,042,603	10,489,776	5,922,604	**21,454,983**	$ 3,397,720	$ 9,137,184	4,723,179	**17,258,083**	$ 3,716,504	$ 11,226,601	7,103,065	**22,046,170**	23,127,766	2,746	510,461	19,049,547	2,685	358,739	24,159,903	5,011	847,044
Cross Cutting*	10,986,210	30,578,098	85,777	**41,650,085**	$ 10,487,608	$ 39,783,375	(0)	**50,270,983**	$ 10,304,023	$ 40,353,301	-	**50,657,323**	23,406,432	3,113	113,856	1,251,284,509	219,114	19,475,290	1,306,946,611	254,930	22,569,794
Total Sector Budget	41,089,018	95,932,657	37,978,037	**174,999,712**	$ 38,407,783	$ 125,535,825	59,803,298	**223,746,906**	$ 39,674,403	$ 142,219,857	64,763,719	**246,657,979**	313,487,380	54,716	15,711,627	1,638,140,726	284,083	37,706,478	1,732,663,924	329,329	40,744,874
EM&V-PA	1,456,428	681,223	-	**2,137,651**	$ 1,164,996	$ 1,834,187	-	**2,999,183**	$ 1,206,004	$ 1,815,077	-	**3,021,081**									
EM&V-ED	13,325	12,689,717	-	**12,703,042**	$ -	$ 6,906,938	-	**6,906,938**	$ -	$ 7,964,668	-	**7,964,668**									
OBF - Loan Pool	-	-	27,902,676	**27,902,676**	$ -	$ -	14,000,000	**14,000,000**	$ -	$ -	17,000,000	**17,000,000**									
CEC AB841	-	-	-	-	$ -	$ 80,908,048	-	**80,908,048**	$ -	$ 69,349,755	-	**69,349,755**									
PA Spending Budget Request (PA Program and EM&V + CEC AB	**42,558,770**	**109,303,598**	**65,880,714**	**217,743,082**	**$ 39,572,779**	**$215,184,998**	**73,803,298**	**328,561,075**	**$ 40,880,407**	**$ 221,349,358**	**81,763,719**	**343,993,483**	**313,487,380.31**	**54,716**	**15,711,627**	**1,638,140,726**	**284,083**	**37,706,478**	**1,732,663,924**	**329,329**	**40,744,874**

* Cross Cutting Sector includes Codes & Standards, Emerging Technologies, Workforce Education & Training, Finance.

** 2020 EE portfolio first-year net savings exclude savings from Codes and Standards advocacy programs as well as savings from RENs and CCAs

Appendix II.C.
Question C-10:
Aggregate Budgets for Statewide Programs
EE Programs Solicitation Strategy



Note: Local Compliance Improvement Sub-Program is expected to replace all or some of PG&E's existing Code Compliance program; no new funding is included in this BBAL because the forecast already reflects continued funding of a code compliance program.

PGE 2022-2023 BBAL Attachment C – CEDARS Filing Receipt

CEDARS FILING SUBMISSION RECEIPT

The PGE portfolio budget filing has been submitted and is now under review. A summary of the budget filing is provided below.

PA: Pacific Gas & Electric (PGE)

Budget Filing Year: 2022

Submitted: 23:59:40 on 14 Dec 2021

By: Jake Richardson

Advice Letter Number: 4521-G/6385-E

* Portfolio Budget Filing Summary *

- TRC: 2.82
- PAC: 9.45
- TRC (no admin): 3.62
- PAC (no admin): 36.52
- RIM: 0.76
- Budget: $233,653,027.53
- TotalSystemBenefit: $2,114,961,487.01
- ElecBen: $1,723,670,568.50
- GasBen: $390,369,301.14
- OtherBen: $68,028.43
- TRCCost: $750,158,964.54
- PACCost: $223,632,839.02

* Programs Included in the Budget Filing *

- PGE21002: Residential Energy Efficiency
- PGE21005: Residential New Construction
- PGE21007: California New Homes Multifamily
- PGE21011: Commercial Calculated Incentives
- PGE21012: Commercial Deemed Incentives
- PGE21014: Commercial Energy Advisor
- PGE21021: Industrial Calculated Incentives
- PGE210212: Compressed Air and Vacuum Optimization Program
- PGE21022: Industrial Deemed Incentives
- PGE21024: Industrial Energy Advisor

- PGE21031: Agricultural Calculated Incentives
- PGE21032: Agricultural Deemed Incentives
- PGE21034: Agricultural Energy Advisor
- PGE21053: Compliance Improvement
- PGE21054: Reach Codes
- PGE21055: Planning and Coordination
- PGE21056: Code Readiness
- PGE21062: Technology Assessments
- PGE21063: Technology Introduction Support
- PGE21071: Integrated Energy Education and Training
- PGE21091: On-Bill Financing (excludes Loan Pool)
- PGE210911: On-Bill Financing Alternative Pathway
- PGE2110011: California Community Colleges
- PGE2110012: University of California/California State University
- PGE2110013: State of California
- PGE2110014: Department of Corrections and Rehabilitation
- PGE2110051: Local Government Energy Action Resources (LGEAR)
- PGE211025: Savings by Design (SBD)
- PGE_Ag_001: Agriculture Energy Savings Action Plan
- PGE_Com_001: Grocery Comprehensive Retrofit and Commissioning
- PGE_Com_002: Smart Labs
- PGE_Com_003: Commercial Efficiency Program
- PGE_Com_004: Advanced Energy Program for High Tech & Biotech
- PGE_Com_005: Healthcare Energy Fitness Initiative
- PGE_Com_SmallBiz: New Small/Micro Business Offering
- PGE_EMV: Evaluation Measurement and Verification
- PGE_ESA: Energy Savings Assistance
- PGE_Ind_001a: Industrial Strategic Energy Management - Food Processing
- PGE_Ind_001b: Industrial Strategic Energy Management - Manufacturing
- PGE_Ind_002: Business Energy Performance Program
- PGE_Ind_003: Industrial Systems Optimization Program
- PGE_LoanPool: Financing Loan Pool Addition
- PGE_OtherPA_Admin: IOU REN/CCA Admin Costs
- PGE_Pub_001: Central Coast Leaders in Energy Action Program
- PGE_Pub_002: Marin Energy Watch Partnership
- PGE_Pub_003: Redwood Coast Energy Watch
- PGE_Pub_004: Central California Energy Watch
- PGE_Pub_005: San Mateo County Energy Watch Program
- PGE_Pub_006: Energy Access SF
- PGE_Pub_007: Sierra Nevada Energy Watch
- PGE_Pub_008: Sonoma Public Energy
- PGE_Pub_009: Government and K-12 Comprehensive Program

- PGE_Pub_010: RAPIDS Wastewater Treatment Optimization Program
- PGE_Res_001a: Pay for Performance - Comfortable Home Rebates
- PGE_Res_001b: Pay for Performance - Home Intel
- PGE_Res_001c: Pay for Performance - Home Energy Rewards
- PGE_Res_002a: Residential Energy Advisor - Home Energy Checkups
- PGE_Res_002b: Residential Energy Advisor - Marketplace
- PGE_Res_002d: Continuous Energy Feedback Program
- PGE_Res_002e: New Marketplace Program
- PGE_Res_003: Multifamily Energy Savings Program
- PGE_SW_CSA_Appl: State Appliance Standards Advocacy
- PGE_SW_CSA_Appl_PA: State Appliance Standards Advocacy PA Costs
- PGE_SW_CSA_Bldg: State Building Codes Advocacy
- PGE_SW_CSA_Bldg_PA: State Building Codes Advocacy PA Costs
- PGE_SW_CSA_Natl: National Codes & Standards Advocacy
- PGE_SW_CSA_Natl_PA: National Codes & Standards Advocacy PA Costs
- PGE_SW_ETP_Elec: Emerging Technologies Program, Electric
- PGE_SW_ETP_Elec_PA: Emerging Technologies Program, Electric - PGE Costs
- PGE_SW_ETP_Gas: Emerging Technologies Program, Gas
- PGE_SW_ETP_Gas_PA: Emerging Technologies Program, Gas - PGE Costs
- PGE_SW_FS: Food Service POS
- PGE_SW_FS_PA: Food Service POS - PGE Costs
- PGE_SW_HVAC_Up: Upstream HVAC (Comm and Res)
- PGE_SW_HVAC_Up_PA: Upstream HVAC (Comm and Res) - PGE Costs
- PGE_SW_IP_Colleges: Institutional Partnerships, UC/CSU/CCC
- PGE_SW_IP_Colleges_PA: Institutional Partnerships, UC/CSU/CCC - PGE Costs
- PGE_SW_IP_Gov: Institutional Partnerships: DGS and DoC
- PGE_SW_IP_Gov_PA: Institutional Partnerships: DGS and DoC - PGE Costs
- PGE_SW_MCWH: Midstream Comm Water Heating
- PGE_SW_MCWH_PA: Midstream Comm Water Heating - PGE Costs
- PGE_SWMEO: Statewide Marketing Education and Outreach
- PGE_SW_NC_NonRes_Ag_electric: SW New Construction NonRes Ag - All Electric
- PGE_SW_NC_NonRes_Ag_electric_PA: SW New Construction NonRes Ag - All Electric - PGE Costs
- PGE_SW_NC_NonRes_Ag_mixed: SW New Construction NonRes Ag - Mixed Fuel
- PGE_SW_NC_NonRes_Ag_mixed_PA: SW New Construction NonRes Ag - Mixed Fuel - PGE Costs
- PGE_SW_NC_NonRes_Com_electric: SW New Construction NonRes Com - All Electric
- PGE_SW_NC_NonRes_Com_electric_PA: SW New Construction NonRes Com - All Electric - PGE Costs
- PGE_SW_NC_NonRes_Com_mixed: SW New Construction NonRes Com - Mixed Fuel
- PGE_SW_NC_NonRes_Com_mixed_PA: SW New Construction NonRes Com - Mixed Fuel - PGE Costs
- PGE_SW_NC_NonRes_Ind_electric: SW New Construction NonRes Ind - All Electric
- PGE_SW_NC_NonRes_Ind_electric_PA: SW New Construction NonRes Ind - All Electric - PGE Costs
- PGE_SW_NC_NonRes_Ind_mixed: SW New Construction NonRes Ind - Mixed Fuel
- PGE_SW_NC_NonRes_Ind_mixed_PA: SW New Construction NonRes Ind - Mixed Fuel - PGE Costs

- PGE_SW_NC_NonRes_Pub_electric: SW New Construction NonRes Public - All Electric
- PGE_SW_NC_NonRes_Pub_electric_PA: SW New Construction NonRes Public - All Electric - PGE Costs
- PGE_SW_NC_NonRes_Pub_mixed: SW New Construction NonRes Public - Mixed Fuel
- PGE_SW_NC_NonRes_Pub_mixed_PA: SW New Construction NonRes Public - Mixed Fuel - PGE Costs
- PGE_SW_NC_NonRes_Res_electric: SW New Construction NonRes Res - All Electric
- PGE_SW_NC_NonRes_Res_electric_PA: SW New Construction NonRes Res - All Electric - PGE Costs
- PGE_SW_NC_NonRes_Res_mixed: SW New Construction NonRes Res - Mixed Fuel
- PGE_SW_NC_NonRes_Res_mixed_PA: SW New Construction NonRes Res - Mixed Fuel - PGE Costs
- PGE_SW_NC_Res_electric: SW New Construction Res - All Electric
- PGE_SW_NC_Res_electric_PA: SW New Construction Res - All Electric - PGE Costs
- PGE_SW_NC_Res_mixed: SW New Construction Res - Mixed Fuel
- PGE_SW_NC_Res_mixed_PA: SW New Construction Res - Mixed Fuel - PGE Costs
- PGE_SW_PLA: Plug Load and Appliance
- PGE_SW_PLA_PA: Plug Load and Appliance - PGE Costs
- PGE_SW_UL: Lighting (Upstream)
- PGE_SW_UL_PA: Lighting (Upstream) - PGE Costs
- PGE_SW_WET_CC: WET Career Connections
- PGE_SW_WET_CC_PA: WET Career Connections - PGE Costs
- PGE_SW_WET_Work: WET Career and Workforce Readiness
- PGE_SW_WET_Work_PA: WET Career and Workforce Readiness - PGE Costs
- PGE_SW_WP: Water/wastewater Pumping
- PGE_SW_WP_PA: Water/wastewater Pumping - PGE Costs

CEDARS FILING SUBMISSION RECEIPT

The PGE portfolio budget filing has been submitted and is now under review. A summary of the budget filing is provided below.

PA: Pacific Gas & Electric (PGE)

Budget Filing Year: 2023

Submitted: 00:02:18 on 15 Dec 2021

By: Jake Richardson

Advice Letter Number: 4521-G/6385-E

* Portfolio Budget Filing Summary *

- TRC: 2.74
- PAC: 9.74
- TRC (no admin): 3.45
- PAC (no admin): 37.07
- RIM: 0.81
- Budget: $257,643,727.85
- TotalSystemBenefit: $2,397,570,614.73
- ElecBen: $1,924,522,445.74
- GasBen: $468,809,322.60
- OtherBen: $2,363,701.82
- TRCCost: $874,996,835.78
- PACCost: $245,966,667.48

* Programs Included in the Budget Filing *

- PGE21011: Commercial Calculated Incentives
- PGE21012: Commercial Deemed Incentives
- PGE21014: Commercial Energy Advisor
- PGE21021: Industrial Calculated Incentives
- PGE210212: Compressed Air and Vacuum Optimization Program
- PGE21022: Industrial Deemed Incentives
- PGE21024: Industrial Energy Advisor
- PGE21031: Agricultural Calculated Incentives
- PGE21032: Agricultural Deemed Incentives
- PGE21034: Agricultural Energy Advisor

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- PGE_SW_WP: Water/wastewater Pumping
- PGE_SW_WP_PA: Water/wastewater Pumping - PGE Costs

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

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency Financing

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

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

Chevron Pipeline and Power
City of Palo Alto

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

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

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

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

Intertie

Intestate Gas Services, Inc.
Kelly Group
Ken Bohn Consulting
Keyes & Fox LLP
Leviton Manufacturing Co., Inc.

Los Angeles County Integrated Waste Management Task Force
MRW & Associates
Manatt Phelps Phillips
Marin Energy Authority
McKenzie & Associates

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

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

SPURR
San Francisco Water Power and Sewer
Sempra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy
Sun Light & Power
Sunshine Design
Tecogen, Inc.
TerraVerde Renewable Partners
Tiger Natural Gas, Inc.

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