PUBLIC UTILITIES COMMISSION

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

Dear Mr. Jacobson,

December 21, 2020

Energy Division rejects Pacific Gas and Electric Company's (PG&E) Annual Budget Advice Letter 4303-G/5936-E and 4303-G-A/5936-E-A, pursuant to the Annual Budget Advice Letter (ABAL) review criteria laid out in California Public Utilities Commission (CPUC) Decision (D.) 18-05-041, which addressed the energy efficiency business plans, but for reasons explained herein, we approve PG&E's budget request of \$237,967,635 for 2021, effective January 1, 2021.

PG&E's ABAL is rejected because, although PG&E's forecast meets energy savings goals, it has failed to submit a cost-effective 2021 portfolio of energy efficiency programs. However, the Assigned Commissioner and Administrative Law Judges' Amended Scoping Ruling Addressing Impacts of COVID-19 (July Ruling) acknowledged that program administrators (PA) face a significantly changed landscape in 2020 and asked PA to include "accurate and good faith estimates of energy efficiency costs and benefits, as well as budgets, that are necessary to address the current goals and strategies" in their respective program year 2021 ABAL.

The July Ruling also stated that "the 2021 and 2022 ABALs will serve a narrower purpose, to notify the Commission and stakeholders of the budget and cost recovery requests and expenditures that each PA forecasts for 2021 and 2022...and be reviewed or approved or modified by Commission staff disposition or resolution, whether or not they meet all of the criteria laid originally laid out in D. 18-05-041." This narrower purpose allows for energy efficiency program activity to continue in advance of and throughout the new business plan applications to be filed by all PA in September 2021, as called for in the July Ruling.²

Consequently, consistent with the approach taken in D. 19-08-034, which granted staff the authority to approve annual budgets for energy efficiency PAs which are aligned with the new energy savings goals even in the event that a PA ABAL is rejected, we rely here on the July Ruling to approve PG&E's spending budget and cost recovery request.

Accordingly, PG&E's spending budget request of \$237,967,635

¹ See Ruling, p. 9, at https://docs.cpuc.ca.gov/PublishedDocs/Efile/G000/M342/K189/342189331.PDF

² Ibid.

for 2021 to administer energy efficiency programs, effective January 1, 2021, is approved.³ As proposed by PG&E, this budget, though not cost-effective, is aligned with and meets the energy savings goals adopted in D.19-08-034 for program year 2021 and represents the "good faith" effort envisioned by the CPUC in the July Ruling.⁴

Lastly, on September 30, 2020, the Governor signed AB 841, authorizing energy efficiency portfolio funding for the Schools Energy Efficiency Stimulus Program (SEESP) beginning in year 2021. Subsequently, on October 7, 2020, the CPUC issued a ruling in Rulemaking 13-11-005 seeking comments on the budget for the SEESP, indicating that the CPUC will decide through the formal proceeding AB 841 related budget issues. Given this, Energy Division will not delay authorization of the 2021 ABALs while the CPUC determines additional guidance on the SEESP budget pursuant to AB 841.

1. Background

On September 1, 2020, PG&E filed its Annual Budget Advice Letter (ABAL) 4303-G/5936-E. On October 1, 2020, the Public Advocates Office at the California Public Utilities Commission (Cal Advocates) and the Small Business Utility Advocates (SBUA) each filed their respective protests of PG&E's ABAL 4303-G/5936-E, while the California Efficiency and Demand Management Council (Council) filed its response. On October 8, 2020, PG&E filed its response to the Council's response to, and Cal Advocates and SBUA protests of, ABAL 4303-G/5936-E. On December 8, 2020, PG&E filed supplemental ABAL 4303-G-A/5936-E-A, replacing 4303-G/5936-E in its entirety.⁵

2. Cal Advocates Protest and PG&E Reply Comments

Cal Advocates' protest included three items directed at PG&E's 2021 ABAL that asked the CPUC to:⁶

- Reject PG&E's ABAL because it does not meet the criteria for approval identified in Decision (D.)18-05-041 and require supplemental ABALs;
- Mandate that all PAs improve cost-effectiveness and reduce risk in their portfolios to respond to COVID-19-related uncertainties, including:
 - Requiring PAs to reduce spending on sectors with low cost-effectiveness; and
 - o Requiring PAs to reallocate this spending to the residential sector;

³ PG&E's total proposed spending budget for 2021 is \$237,967,635. The authorized total PA budget recovery request [PG&E + Community Choice Aggregators(CCA) + Regional Energy Networks(REN)] is \$263,244,857. Additionally, PGE's supplemental Advice Letter reflects PG&E's decision to reserve PY2020 unspent uncommitted funds for AB841 programmatic activity. Consequently, PG&E's budget recovery request is not reduced by the carryover of those funds, as was done in prior program years via the ABAL process.

⁴ See July Ruling, p. 9

⁵ PG&E filed supplemental ABAL 4303-G-A/5936-E-A on December 8, 2020, in which it: updated Statewide (SW) forecasts for certain programs based on lead IOUs' supplemental 2021 ABAL; updated local program forecasts based on SW adjustments; updated savings for water heater measures based on DEER updates; made minor budget adjustments based on SW program changes; revised 2021 ESPI award to "0" in accordance with D. 20-11-013; excluded 2020 unspent/uncommitted funds; updated PG&E and REN/CCA EM&V amounts; corrected a discrepancy between PG&E Agricultural budget as filed on CEDARS and in the advice letter. PG&E's supplemental ABAL was still not cost-effective, with a forecast TRC of 0.92. The supplemental advice letter was filed without a protest period, per Energy Division guidance.

⁶ See The Public Advocates Office's Protest of Energy Efficiency Annual Budget Advice Letters for Program Year 2021 (Cal Advocates Protest), September 1, 2020, p. 2.

 Require PAs to standardize their accounting and reporting practices for unspent, uncommitted funds.

2.1. Failure to Meet Approval Criteria Identified in D. 18-05-041

In its protest filed October 1, 2020, Cal Advocates argued that D. 18-05-041 established criteria for the review and approval of a PA ABAL. Specifically, D. 18-05-041 states that a PA ABAL must meet energy savings goals, be cost-effective and propose a budget that is at or under the authorized amount for the program year. In this instance, PG&E does not forecast a program year 2021 portfolio that is cost-effective. Consequently, Cal Advocates stated that the CPUC must reject PG&E's ABAL 4303-G/5936-E and asked the CPUC to require PG&E to file a supplemental ABAL that meets the requirements set forth in D. 18-05-041.

In its reply, PG&E acknowledged that its 2021 portfolio forecasted TRC of 0.898 does not meet the minimum threshold TRC of 1.0 required for ABAL approval per D.18-05-041, and argued that the July Ruling nevertheless allows CPUC staff to approve a PA budget and savings forecast "even if they do not meet the requirements of D. 18-05-041." PG&E also stated that its forecast is realistic and that cost-effectiveness cannot be reasonably improved during the third-party transition period while also meeting customer needs attendant to the COVID-19 pandemic. Consequently, PG&E argued that it should not be required to file a supplemental ABAL that meets the criteria laid out in D. 18-05-041.

Discussion

The ABAL review criteria laid out in D. 18-05-041 requires a PA ABAL to meet energy savings goals, be cost-effective and propose a budget that is at or under the authorized budget cap for the program year. PG&E's 2021 ABAL, as filed, is not cost-effective on a benefit/cost ratio as measured by the Total Resource Cost (TRC) test. Specifically, PG&E's 2021 ABAL had a TRC of 0.89 (excluding savings from Codes and Standards programs)¹⁰ which is below the 1.0 TRC threshold required by D. 18-05-041.

However, the CPUC's July Ruling provided guidance for Energy Division staff review of PAs' 2021 ABALs. The guidance allows budget recovery requests to be approved "whether or not they meet all of the criteria originally laid out in D. 18-05-041." The CPUC also recognized the challenges that affect and diminish portfolio cost-effectiveness, which were initially acknowledged in D. 18-05-041, as well as the uncertainty attendant to the third-party transition process, all of which are affected by the economic challenges caused by the COVID-19 pandemic. Consequently, in the interest of sustaining energy efficiency program funding and continued program operations through 2022, as noted in the July Ruling, PG&E does not need to file a supplemental ABAL that meets all

¹¹ See Ruling, p. 9.

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⁷ See Cal Advocates Protest, p. 3

⁸ In PG&E AL 4303-G-A/5936-E-A, filed December 8, 2020, PG&E's forecast 2021 TRC is estimated at 0.92

⁹ See Pacific Gas and Electric Company's Reply to Protests from the Public Advocates Office, the California Efficiency + Demand Council, and the Small Business Utility Advocates regarding Advice Letter 4303- G/5936-E (PG&E's 2021 Energy Efficiency Annual Budget Advice Letter in Compliance with Decisions 15-10-028 and 18-05-041) (PG&E Reply), page 3.

 $^{^{10}}$ At this time CPUC policy requires portfolio cost-effectiveness to be measured in the absence of savings from Codes and Standards programs, regardless of their magnitude as a percentage of total portfolio savings.

ABAL review criteria laid out in D. 18-05-041 and PG&E's spending budget request for program year 2021 is approved.

2.2. COVID-19 Impacts

In its protest, Cal Advocates argued that the COVID-19 pandemic requires:

- robust portfolios with minimal risks, and
- the CPUC to have all PAs modify their respective portfolios to improve cost-effectiveness by reducing spending on sectors with low cost-effectiveness and allocating more resources to the residential sector.¹²

Cal Advocates' protest argued that the economic hardship created by COVID-19 for California ratepayers has led to a significant increase in residential energy consumption and that the PAs and CPUC should ensure portfolio cost-effectiveness and maximize benefits for every dollar spent to ensure more customers realize energy savings and lower bills. Cal Advocates' protest also stated that the July Ruling "should not be interpreted as an invitation for leniency in meeting cost-effectiveness requirements." Lastly, the protest stated that the CPUC should protect ratepayers by requiring modifications to create more robust energy efficiency portfolios and minimize the risk of underperformance during uncertain times and ratepayer funds being wasted on programs that deliver few benefits. ¹⁴

To that end, Cal Advocates' protest highlighted PG&E's sector-level budgets¹⁵ for 2021, noting that approximately \$55.8 million (out of a total \$195 million) is allocated to non-cost-effective programs (TRC < 1.0). Cal Advocates also emphasized the need to reduce the substantial risk of portfolio underperformance and protect ratepayer funds and asked the CPUC to require PG&E (and all PAs) to reduce spending on non-cost-effective sectors and programs.¹⁶ In order to achieve those ends, Cal Advocates recommended that PG&E reduce agriculture, industrial, commercial and public sector budgets by 38 percent, 8 percent, 9 percent, and 42 percent, respectively, and reallocate those funds (approximately \$19.7 million) to the residential sector.¹⁷

In its reply, PG&E stated that its 2021 forecast considers the needs of its customers and supports residential customer needs vis a vis COVID-19. PG&E also stated that its 2021 portfolio must serve residential and non-residential customers alike, both of whom will benefit through continuation of certain existing programs while new local and statewide programs begin, and cites a lack of evidence in support of Cal Advocates' claim that residential customers require more support than non-residential customers. PG&E will also monitor residential sector performance and reallocate funds as needed, and expects the third-party solicitation to result in new programs that will complement and support existing efforts. Lastly, PG&E argued that budget allocations for non-

¹² See Cal Advocates Protest, pp. 6-7.

¹³ Ibid.

¹⁴ Ibid.

¹⁵ See Cal Advocates Protest, Table 2, p. 7. (Sectors include Agriculture, Industrial, Commercial, Cross-cutting, Residential, and Public.)

¹⁶ See Cal Advocates Protest, p. 9.

¹⁷ See Table 6, Cal Advocates Protest, p. 10.

¹⁸ See PG&E Reply, p. 4.

cost-effective programs in large part support a successful transition process to new third-party programs and facilitate continued COVID-19 customer support.¹⁹

Discussion

In its July Ruling, the CPUC acknowledged that PAs face a significantly changed landscape due to COVID-19 and asked PAs to include "accurate and good faith estimates of energy efficiency costs and benefits, as well as budgets, that are necessary to address the current goals and strategies" in their respective program year 2021 ABALs. The CPUC also recognized the challenges that affect and diminish portfolio cost-effectiveness, including "how to define cost-effectiveness requirements, and how they should be applied in the setting of potential and goals and budget approval," as well as the uncertainty attendant to the third-party transition process, all of which are affected by the economic challenges caused by the COVID-19 pandemic.

Furthermore, the Energy Division recognizes that, in PG&E's role as a PA and manager of its respective portfolio, PG&E's 2021 residential sector budget of approximately \$50 million is suitable and designed to address the needs of customers at this time. PG&E's 2021 residential sector budget is 26 percent of PG&E's total 2021 portfolio budget (excluding Codes and Standards). The \$11 million decrease from 2020 is reflected primarily in PG&E's portfolio management decisions, including the decision to close three non-cost-effective residential programs with an aggregate 2020 budget of \$12 million, to create space for new third-party programs.²⁰

Additionally, PG&E increased the aggregate budget of a suite of existing residential programs by approximately 157 percent.²¹ While Cal Advocates argues that the CPUC should require PG&E to reallocate certain non-cost-effective sector-level budgets to the residential sector, PG&E is the entity best suited to develop a "good faith" 2021 portfolio forecast that addresses competing needs of cost effectiveness requirements and customers and sectors as they are affected by these ongoing challenges.

Consequently, PG&E is not required to file a supplemental ABAL that reallocates budgets from non-residential sectors to the residential sector and PG&E's 2021 ABAL is approved as filed in supplemental 4303-G-A/5936-E-A.

Finally, as stated in D. 18-05-041, PG&E must host a stakeholder workshop "...to explain why it failed to meet the approval criteria." In this workshop, PG&E shall share its budget development process with stakeholders, including an explanation of how it determines which programs receive specific funding amounts, portfolio cost-effectiveness estimates, and why programs with high TRC values did not receive additional budget to drive cost-effective savings. While not required by the decision, staff recommends that PG&E also provides in the workshop updates on its portfolio performance to date, as impacted by COVID-19, as well as an update on the third-party solicitation process.

2.3. Standardized Accounting For Unspent and Uncommitted Funds

¹⁹ Ibid.

²⁰ See Attachment 2 "Program Level Changes Table", in PG&E Advice Letter 4303-G/5936-E

²¹ Ibid.

In its protest, Cal Advocates argued that the CPUC should require PG&E to file a supplemental ABAL to standardize accounting and reporting of unspent and uncommitted funds and use of ABAL templates. Cal Advocates pointed to two different estimates for PG&E's 2020 unspent and uncommitted funds - \$24 million in Table 3a of PG&E's ABAL Appendix and \$10 million in Table 9 of that same Appendix.

In its reply, PG&E stated that a supplemental filing is not necessary at this time, as its 2021 ABAL properly uses CPUC-issued table templates and each table includes notes that explain unspent and uncommitted funds as reported.²² PG&E also stated that the apparent discrepancy between Table 3a and Table 9 is clarified in a note on Tab 7 of the Appendix. Specifically, the \$24 million in estimated 2020 unspent and uncommitted funds is comprised of \$10 million for PG&E and \$14,075,000 in estimated 2020 unspent and uncommitted funds for non-IOU PAs for which PG&E is responsible for actual recovery through rates.

Discussion

In a review by Energy Division staff, the Appendix that accompanies PG&E's PY 2021 ABAL does provide an explanation that clarifies the apparent discrepancy between Table 3a and Table 9, as highlighted in Cal Advocates' protest. In the note that accompanies the table in Tab 7 of the Appendix, PG&E specified that the \$24 million in estimated 2020 unspent and uncommitted funds is comprised of \$10 million for PG&E and \$14,075,000 in estimated 2020 unspent and uncommitted funds for non-IOU PAs for which PG&E is responsible for actual recovery through rates.

Consequently, Energy Division finds that PG&E adhered to current accounting and reporting practices and CPUC-issued templates as they relate to unspent and uncommitted fund and PG&E is not required to file a supplemental ABAL.

3. The Council's Response

The Council filed its response to PG&E ABAL 4303-G/5936-E on October 1, 2020. In its response, the Council highlighted its concerns regarding decreased energy efficiency portfolio budgets since 2017, noting a 36 percent decline from 2017 to 2021, which it finds troublesome in light of the COVID-19 impacts on California ratepayers. The Council's overarching comments recommend that the CPUC adhere to its interpretation of the July Ruling to enable the "broadest possible deployment of EE during this incredibly difficult time", and reform cost-effectiveness, in part, in order to do so.²³

Additionally, the Council expressed concerns about the unclear nature of the IOU process for determining the forecasted cost-effectiveness (TRC) of third-party programs, claiming that it understands "that certain implementers have submitted forecasted project and measure mixes for their programs with program level TRCs above 1.0, but for which the IOUs are forecasting TRCs below 1.0." The Council also claimed that "the IOUs are not even providing the TRC forecast for programs they are terminating or making changes to," though this is a specific reference to Southern

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²² See PG&E Reply, p. 5.

²³ See Response of California Efficiency + Demand Management Council (Council Response), October 1, 2020, p. 2.

California Edison (SCE). The Council asserted that if an implementer forecast is cost-effective, project applications should be allowed to continue, arguing that the process is non-transparent and prevents an accurate cost-effectiveness evaluation of current programs and the rationale behind proposed program closures.²⁴

The Council's response also cited its worries regarding proposed program closures that are based on prior program performance, highlighting policy and process changes that affect project-level cost-effectiveness, including reduced Effective Useful Life (EUL) parameters. The Council argued that while in certain instances, these changes can be overcome, they often occur in the middle of an existing contract and reduce the cost-effectiveness of projects that have already incurred significant investments on the part of implementers and/or customers.

Lastly, the Council expressed its concerns over what it perceives as program gaps as the IOUs ramp down existing programs to make room for new programs developed via the ongoing third-party solicitation process. The Council believes this issue is compounded by COVID-19's effects on the portfolio at large, and asks the CPUC to:

- immediately allow existing programs to submit new cost- effective project applications, and
- allow all projects with forecasted PACs above 1.0 to be submitted by 3rd party implementers of any program set to shut down or ramp down since 2018.

The Council recommended that the IOU 2021 ABALs be "modified" to incorporate the Council's proposed changes.

PG&E did not respond to the Council's Response.

Discussion

The Council's response is similar to concerns they expressed to the CPUC in a letter dated December 30, 2019. Specifically, that letter described the Council's concerns regarding program closures, the larger third-party solicitation process, and decreased portfolio budgets as reflected in the IOUs' 2020 ABALs. On February 4, 2020, Commissioner Lianne Randolph responded to the Council's letter noting that declining budgets do not indicate less ongoing investments in energy efficiency but, rather, "signal the success of prior energy efficiency investments that have led to increasing amounts of energy efficiency that will be achieved through the Codes and Standards established by the California Energy Commission." ²⁵

Commissioner Randolph reminded the Council that the most recent Potential and Goals Study, published in August 2019, reflected a one-third decrease in energy efficiency potential as compared to the 2017 study and that, although goals are lower, IOU program savings in combination with Codes and Standards savings are still supportive of the state energy and climate goals.

Further, the Commissioner's letter highlighted the IOUs' responsibility to consider portfolio design trade-offs in order to meet cost-effectiveness requirements, including the ability to close

²⁴ See Council Response, p. 3.

²⁵ See CPUC Letter to California Efficiency + Demand Management Council, February 4, 2020, pp. 1-2.

underperforming programs as warranted, and described CPUC-IOU-stakeholder interactions to occur in 2020 regarding the ongoing third-party solicitation process, including actions specific to PG&E and SCE portfolio management, as well as custom projects review.

In a supplemental spreadsheet submitted as Attachment 2 to PG&E's 2021 ABAL, PG&E lists programs to be closed as of December 31, 2020, and replaced by either new third-party programs or statewide programs. In anticipation of this portfolio transition PG&E will close 21 programs. These programs have a combined 2020 budget of approximately \$39 million and preliminary 2020 claimed TRC values that range from 0.00 to 0.52. Attachment 2 also provides budget and TRC information for an additional 12 programs that PG&E proposes to close upon completion of program commitments. These 12 programs have a combined 2020 budget of approximately \$30 million and only two are cost-effective. It is Energy Division staff's assessment that PG&E's proposed program closures for 2021 are reasonable, particularly in light of the transition to the increased level of third-party programs.

Lastly, all CPUC efficiency savings parameter updates go through the Database for Energy Efficient Resources (DEER) update process, in which stakeholders have the opportunity to review and comment on the proposed parameters updates, and the final updates are adopted via CPUC resolution. The DEER parameters updates do not go into effect immediately, but are instead applied to programmatic activity two years after they are approved by the CPUC. For example, the parameter updates approved by the CPUC in the August 2020 DEER resolution do not go into effect until program year 2022.

Consequently, PG&E is not required to modify its 2021 ABAL to reflect changes requested by the Council.

4. SBUA Protest and PG&E Reply Comments

SBUA's protest raised two issues that are specific to PG&E's 2021 ABAL:

- Investor-owned utilities have to collaborate with RENs to ensure the needs of small business customers are being met, and
- PAs should breakdown data by customer subclasses.

4.1. IOU/REN Collaboration to Meet the Needs of Small-Business Customers

In its protest, SBUA argued that meeting the needs of Hard-to-Reach (HTR) customers is not the sole responsibility of the Regional Energy Networks (REN). SBUA highlighted D. 18-05-041 to support its assertion that the IOUs and RENs may "propose programs to serve HTR customers even if these programs overlap." SBUA stated that commercial HTR customers have historically low program participation rates and, as a critical customer class, should be targeted like residential customers. In order to achieve these ends, SBUA asked that Energy Division require the IOUs and

²⁶ Each IOU PA included information on proposed program-level changes, including budgets and TRC, as either a spreadsheet attachment or prose in their respective 2021 ABAL filing.

²⁷ See "Protest of Small Business Utility Advocates to the Energy Efficiency Annual Budget Advice Letters for Program Year 2021", October 1, 2020, p. 3.

RENs to comply with D. 18-05-041 and refile their respective ABAL "with an analysis and plans that demonstrate coordination and effective plans to serve commercial HTR customers" 28

PG&E's reply to SBUA's protest asked that the CPUC reject SBUA's request for all PAs to file supplemental ABALs that demonstrate their respective plans to serve commercial HTR customers. In doing so, PG&E refers to the Joint Cooperation Memos (JCMs), which are filed annually by each PA (except SDG&E), per CPUC guidance. JCMs describe the exact coordination activities between IOU PA and the RENs that SBUA requested in their protest, and PG&E asked that program administration coordination not be duplicated in the ABAL process. In PG&E's case, its reply highlighted planned quarterly meetings with BayREN in 2021 and refered readers to the PG&E and BayREN JCM.

Discussion

PG&E is correct in describing the annual JCM as the primary source for information that SBUA asked for in its protest. These memos are filed annually by each PA (except SDG&E³¹), and describe the means by which each entity will cooperate and coordinate in the coming year to ensure that ratepayer funds are providing the best service possible to the ratepayers in their respective overlapping territories. Consequently, PG&E is not required to file a supplemental ABAL that describes cooperation between it and the REN, as this would be duplicative of the JCM process.

4.2. Customer Sub-class Data

PAs currently report on funding requests, savings, etc., by general customer class (residential, commercial, industrial, and agricultural). In its protest, SBUA requested that PAs be required to break out data for residential and commercial customers into subgroups:

- res-single-family;
- res-multi-family;
- small commercial;
- medium; and,
- large commercial.

In addition, SBUA recommended that PAs be required to adopt SDG&E's approach of presenting information on rate impacts for each customer sub-class, which SBUA argued would improve stakeholder and CPUC staff understanding of whether and how PA program activities are targeting customer classes that face significant participation barriers.³²

In its reply, PG&E stated that its customer data cannot immediately be broken out by subclass, as forecasts are largely based on sector-level data provide by implementers who were not asked to provide sub-class information. PG&E argued that development of this sub-class-level data set

²⁹ SDG&E is not required to file a JCM as it does not currently work with any CCA or REN in the SDG&E service territory. ³⁰ See PG&E Reply, p. 6.

²⁸ Ibid.

³¹ SDG&E is not required to file a JCM, as it doesn't not currently have any territory overlap with CCA/REN entities providing energy efficiency programs.

³² See SBUA Protest, pp. 7-8.

would require an inordinate amount of time and should instead be considered in the upcoming Business Plan application and PY 2022 ABAL, which are both due in September 2021.

Discussion

Energy Division agrees with PG&E that the ABAL process, which is explicitly envisioned as a "ministerial,"³³ sector-level budget recovery request exercise tied to review criteria laid out in D. 18-05-041, is not the proper forum for issues such as data collection and reporting requirements, which should be litigated within the energy efficiency proceeding. Consequently, Energy Division did not direct PG&E to break down customer data by sub-class and provide related rate impacts as part of the ABAL review process. Instead, Energy Division will work with stakeholders and the IOUs to determine the most feasible manner in which these revised data reporting provisions may be achieved.

Please direct any questions regarding Energy Division's findings in this non-standard disposition to Peter Franzese (peter.franzese@cpuc.ca.gov).

Sincerely,

Edward Randolph

Deputy Executive Director for Energy and Climate Policy/

Director, Energy Division

Cc: Service Lists R. 13-11-005 and A.17-01-013

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³³ See D. 15-10-028, p. 60



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December 8, 2020

Advice 4303-G-A/5936-E-A

(Pacific Gas and Electric Company ID U 39 M)

Public Utilities Commission of the State of California

Subject: Supplemental: PG&E's 2021 Energy Efficiency Annual Budget Advice Letter in Compliance with Decisions 15-10-028 and 18-05-041

I. Purpose

On September 1, 2020, Pacific Gas and Electric Company (PG&E) submitted its 2021 energy efficiency (EE) portfolio budget (2021 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 and guidance from the California Public Utilities Commission (CPUC or Commission) Energy Division (ED) staff (Staff).

PG&E submits this supplemental 2021 Energy Efficiency Annual Budget Advice Letter (ABAL), to replace its September 1, 2020 ABAL, with the following modifications:

updated statewide (SW) program forecasts for the SW Emerging Technologies
Gas Program (PGE_SW_ETP_Gas), SW Commercial Water Heating Program
(PGE_SW_MCWH), the SW Food Service Program (PGE_SW_FS), and the SW
Upstream Lighting Program (PGE_SW_UL) to reflect revised forecast data from
lead investor-owned utilities (IOUs) filed in their supplemental 2021 ABALs;

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¹ D.15-10-028, Ordering Paragraph (OP) 4.

² D.18-05-041, OP 41-47.

- updated local program forecasts to address portfolio impact of SW program changes, including the Commercial New Third-Party Programs Placeholder (PGE_3P_Com), the Industrial Strategic Energy Management (SEM) Programs (PGE_Ind_001a and PGE_Ind_001b), and minor budget updates across all local programs;³
- updated savings for water heater measures affected by revisions to the DEER Water Heater Calculator;⁴
- updated the program changes in Section III.G. to reflect minor program budget updates described above, as well as a few minor corrections;
- set the estimated 2021 ESPI award in the portfolio cost-effectiveness calculations to \$0 in accordance with D.20-11-013 Ordering Paragraph 1;5
- excluded 2020 estimated unspent and uncommitted funds from the 2021 budget recovery offset to comply with Assembly Bill 841 (AB841);⁶
- updated the EM&V budget for PG&E based on the revised Programs budget in this supplemental advice letter;⁷
- updated the CPUC EM&V amounts and budget recovery requests for the Bay Area Regional Energy Network (BayREN), Tri-County REN (3C-REN), and Marin Clean Energy (MCE) based on their filed 2021 ABALs;⁸ and
- updated the "CEDARS Discrepancies" discussion in Section III.A. to acknowledge a minor discrepancy in the Agricultural budget on CEDARS versus this advice letter.

This supplemental advice letter replaces original Advice 4303-G/5936-E in its entirety.

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³ The Commercial New Third-Party Program Placeholder (PGE_3P_Com) was updated to reflect more recent information from the third-party solicitations process. The Industrial SEM programs (PGE_Ind_001a and PGE_Ind_001b) were also updated to reflect more recent forecast data to enable PG&E to demonstrate that it believes its 2021 portfolio will still meet the 2021 therm savings goal, despite a drop in forecasted therm savings as a result of updates to the SW Commercial Water Heating program (PGE_SW_MCWH) and Commercial Deemed Incentives (PGE21012) that were due to updated savings for water heater measures affected by revisions to the DEER Water Heater Calculator. Local program budgets throughout PG&E's portfolio were updated slightly as a result of a reallocation of Portfolio Administrator costs triggered by other portfolio updates. More information about PG&E's Portfolio Administrator costs can be found in Appendix B of PG&E's 2020 ABAL Workshop Presentation, held on March 16, 2020.

⁴ The DEER 2021 Water Heater Calculator v4.2, provided to the IOUs after the September 1, 2020 ABAL filing date, was used to update this supplemental advice letter.

⁵ See Section III.A of this advice letter for more details.

⁶ AB841 Section 1615(a)(1) requires PG&E to allocate 2020 unspent and uncommitted funds toward a School Energy Efficiency Stimulus Program budget in 2021. See Section III.J.1. for more details.

⁷ See Section III.H. for more details.

⁸ See Section III.J.1. for more details.

PG&E requests that the Commission approve the following through a non-standard disposition effective January 1, 2021:

- 1. its 2021 ABAL spending and cost recovery budget amounts, both equal to \$237,967,635;9
- 2. the forecasted 2021 electric/gas split for cost recovery allocations effective January 1, 2021;¹⁰
- 3. the cost recovery budget amounts for BayREN, 3C-REN, and MCE shown in Tables 1 and 15 of this advice letter, as these budget recovery requests align with the 2021 ABAL budgets filed by each of these Program Administrators (PAs) and also include CPUC Evaluation Measurement and Verification (EM&V) funding amounts calculated by PG&E for recovery via PG&E rates but not included in the 2021 ABALs for these PAs;¹¹ and
- 4. the program closures in Tables 6 and 7 of Section III.G. of this advice letter.

II. Background

A. Regulatory Requirements

D.15-10-028 requires each EE program administrator (PA) to submit an advice letter with a budget for the next calendar year's EE portfolio by the first business day of September each year.¹² 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."¹³

B. Filing Requirements

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

- · A portfolio cost-effectiveness statement; and
- Application summary tables with forecast budgets and savings by sector and program/intervention.¹⁴

D.18-05-041 requires that the IOUs' ABALs include the following:

⁹ Section III.J. of this advice letter provides more detail on PG&E's cost recovery request.

¹⁰ The 2021 ABAL forecasted electric/gas split is 83%/17%, applicable to the non-fuel-substitution portion of its EE portfolio budget as shown in Section III.J.1, Table 15.

¹¹ See Section III.H. for CPUC EM&V calculation details and Section III.J.1. for cost recovery details by PA.

¹² D.15-10-028, OP 4.

¹³ D.15-10-028, p.43.

¹⁴ Ibid, p. 59.

- A forecasted Total Resource Cost (TRC) test score that meets or exceeds 1.25, except during program years 2019-2022, when the forecasted TRC must meet or exceed 1.0;
- Forecasted energy savings goals that must meet or exceed Commissionestablished savings goals for each IOU; and
- 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 ABAL.¹⁵

If a PA's ABAL submitted for program year 2019 through program year 2022 fails to meet the criteria above, including a forecasted portfolio TRC of 1.0 during program years 2019-2022, the PA is to hold a workshop to provide transparency into the associated challenges and receive feedback that would potentially aid the PA in revising its Business Plan pursuant to D.15-10-028 for Commission approval.¹⁶

C. Contents of this Filing

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

- Budget, Goals, and Cost-Effectiveness
- Business Plan Revision
- 2021 Forecast Approach
- COVID Considerations
- Cost-Effectiveness Challenges
- Portfolio Strategies to Improve Cost-Effectiveness in 2021
- 2021 Program Changes
- EM&V
- Unspent Funds
- Cost Recovery
- Metrics

In addition to the information above, PG&E's 2021 ABAL includes the following attachments:

- Attachment 1 California Energy Data and Reporting System (CEDARS) Filing Confirmation
- Attachment 2 Program Changes Table
- Attachment 3 Supplemental Budget Tables
- Attachment 4 Appendices¹⁷

¹⁵ D.18-05-041, p. 133.

¹⁶ D.18-05-041, pp. 134-135.

¹⁷ Appendix tables include, but are not limited to, the Statewide Program Budgets table and the Caps and Targets table.

\$0

III. Discussion

A. Budget, Goals, and Cost-Effectiveness

PG&E proposes a 2021 EE portfolio budget of \$237.97 million. Table 1 provides an overview of PG&E's 2021 forecasted portfolio budget, savings, and cost-effectiveness. The net savings, TRC, Program Administrator Cost (PAC), and Ratepayer Impact (RIM) forecast values exclude market effects. PG&E is forecasting a portfolio that meets the new 2021 savings goals but is not forecasted to be cost-effective in 2021 as the result of a myriad of factors, including but not limited to PG&E's continued portfolio transition in 2021 to an outsourced model, the result of which is the continued ramp-down of existing programs and the ramp-up of new third-party local and statewide programs. PG&E expects its portfolio cost-effectiveness to improve when most existing programs have transitioned out of the portfolio and most new programs are fully ramped up. In addition to the portfolio transition impact on cost-effectiveness, PG&E still faces cost-effectiveness challenges discussed in detail in Section III.E. PG&E is taking steps to address these challenges and improve cost-effectiveness in 2021, as discussed in Section III.F.

Table 1: PG&E 2021 Forecast Budget and Savings Summary

PG&E PY FORECAST ENERGY SAVINGS (Net) **Program** Year (PY) MMkWh kW Sector Budget therms Residential \$49.979.411 178,135,896 44.668 6.8 Commercial \$54,752,092 64,111,284 10,010 2.7 Industrial \$31,732,548 63,517,763 4,881 4.8 Agricultural \$13.889.978 17.782.872 3.962 0.1 0.0 **Emerging Tech** \$5,697,009 **Public** \$16,065,273 14,776,003 0.2 1,701 WE&T 0.0 \$8,956,028 0.1 Finance \$5,086,110 46,651,867 7,931 0.0 **OBF Loan Pool** \$17,000,000 PG&E Total Program Savings (w/out C&S) \$203,158,450 384,975,685 73,153 14.7 **CPUC Program Savings Goal** 358,000,000 73.000 14.0 Forecast savings as % of CPUC Program Savings Goal 105% 108% 100% 976,402,091 Codes and Standards \$25,290,480 212,619 14.5 PG&E EM&V \$9,518,705 PG&E PY Spending Budget Request (a) \$237,967,635 (LESS) PG&E Estimated Uncommitted and Unspent Carryover Balance (b) \$0 \$237,967,635 PG&E PY Budget Recovery Request (c) PG&E Authorized PY Budget Cap (D.18-05-041) (d) \$354,178,798 \$3,754,719 MCE PY Budget Recovery Request (excl. CCA Uncommitted/Unspent Carryover) (e)

RCEA PY Budget Recovery Request (excl. CCA Uncommitted/Unspent Carryover) (f)

.

¹⁸ See Section III.C. for details on PG&E's forecasting approach.

BayREN PY Budget Recovery Request (excl. CCA Uncommitted/Unspent Carryover) (e)	\$18,207,833
3C-REN PY Budget Recovery Request (excl. CCA Uncommitted/Unspent Carryover) (e)	\$3,314,670
Total PA (IOU+CCAs+RENs) Recovery Budget	\$263,244,857
PG&E Forecast PY TRC (g)	0.92
PG&E Forecast PY PAC (g)	1.29
PG&E Forecast PY RIM ^(g)	0.55

- (a) This is the amount by which Statewide 25% requirement will be measured and what PG&E intends to spend in the program year, including carryovers.
- (b) The estimated balance of all unspent and uncommitted reflects the total unspent uncommitted for all prior program years up to and through December 31, 2019. These funds are an estimate at the time of this Advice Letter filing and not yet final. PG&E's estimated unspent and uncommitted funds amount of \$10,000 for PY2020 are not included in this total because California Assembly Bill 841 (AB841) requires the IOUs to allocate PY2020 unspent and uncommitted funds to a 2021 School Energy Efficiency Stimulus Program budget, per AB841 Section 1615(a)(1). Thus, these unspent and uncommitted funds are unavailable for return to ratepayers or 2021 EE portfolio budget recovery offset.
- (c) The amount of funds to be collected (budget recovery) for PY 2021.
- (d) The IOU Authorized PY Budget Cap uses the "Total Program" budget from PG&E's approved Business Plan Table 1.5. This total 2021 business plan budget was included in the budget true-up table presented in PG&E's 2019 ABAL, Second Supplemental Advice 4011-G-B/5375-E-B filed on January 23, 2019 and approved by the CPUC on April 2, 2019. (e) MCE, BayREN, and 3C-REN 2021 budget recovery requests are based on their final 2021 ABAL budgets, and include carryover and 4% EM&V inclusive of CPUC EM&V. See MCE Advice 45-E, BayREN Advice 16-E-A, and 3C-REN Advice Al 6-E/5-G for their 2021 ABAL budgets.
- (f) No 2021 cost recovery for the Redwood Cost Energy Authority (RCEA) is required at this time because PG&E transferred funds from its 2020 budget to RCEA for RCEA's full 3-year program amount, including program year 2021, as approved and directed by Resolution E-5050. Thus, RCEA's 2021 budget recovery request is set at \$0.
- (g) The portfolio TRC, PAC, and RIM presented in this table are lower than the TRC, PAC, and RIM including codes and standards and market effects.

Table 2 provides the TRC test and PAC test forecasts for its 2021 EE portfolio, both with and without the Codes and Standards program benefits. The TRC and PAC estimates exclude market effects.

Table 2: PG&E 2021^(a) Cost-Effectiveness Statement

Cost-Effectiveness Scenario	2021 TRC Forecast	2021 PAC Forecast	2021 RIM Forecast
Portfolio without C&S	0.92	1.29	0.55
Portfolio with C&S	1.94	6.78	0.67

⁽a) The 2021 CET User Interface from CEDARS was used to calculate cost-effectiveness.

TRC, PAC, and RIM calculations in Table 2 include costs for:

- Resource and non-resource programs, including Financing and Workforce Education and Training (WE&T) programs;
- EM&V:19

¹⁹ EM&V costs total 4% of PG&E's EE portfolio budget. See Section III.H. for more details on EM&V.

- PG&E's ESPI award in 2021, estimated to be \$0;20
- Statewide (SW) Marketing, Education and Outreach (ME&O);²¹ and
- On-Bill-Financing (OBF) cost of capital.²²

TRC, PAC, and RIM calculations in Table 2 exclude costs for:

- Emerging Technologies (ET) programs;
- BayREN, 3C-REN, RCEA, and MCE benefits and costs:²³
- Financing costs including credit enhancements approved for the Statewide Financing Pilots in D.13-09-044;
- 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.

CEDARS Discrepancies

The total PG&E portfolio budget, Agricultural sector budget, TRC, and PAC values presented in this advice letter contain some discrepancies with the values shown in the CEDARS dashboard for this 2021 filling. These discrepancies are discussed in the sections below and summarized in the Tables 3 and 4 below.

Agricultural Sector Budget

A small discrepancy of \$25,073 is present for the total Agricultural sector budget shown in CEDARS compared with Table 1 of this advice letter. The CEDARS dashboard shows a total Agricultural sector budget of \$13,864,905, which is \$25,073 less than the total Agricultural budget of \$13,889,978 shown in Table 1 of this advice letter. This discrepancy results from the Industrial Refrigeration Performance Plus (IRPP) program (PGE21036), which is categorized under the "Cross Cutting" primary sector in CEDARS and therefore falls under the "Cross Cutting" budget in the CEDARS 2021 filing dashboard. Table 1 of this advice letter does not include a "Cross Cutting" sector category, and because the secondary sector (included in the CEDARS program table) for this program is "Agricultural", this program falls under the "Agricultural" sector budget in Table 1 of this advice letter. This program's primary sector cannot be modified in CEDARS without creating a new CEDARS Program ID, and because the IRPP program is closing in 2021 upon completion of commitments per Section III.G., Table 7 of this advice letter, PG&E

²⁴ D.19-12-021, OP 5.

²⁰ PG&E's 2021 ABAL filed on September 1, 2020, included a \$15.6 million ESPI award estimate for 2021. However, for this Supplemental 2021 ABAL, the 2021 ESPI award estimate has been reduced to \$0 as a result of the Commission's moratorium on ESPI awards beginning in 2021 as directed via D.20-11-013 OP 1.

²¹ PG&E is including SW ME&O costs in its TRC calculation per direction on forecasted TRC costs in the EE Policy Manual V6.0 p.26 and D.09-09-047 pp.69-70, 288.

²² See "OBF Cost of Capital" discussion under this Section III.A.

²³ D.12-11-015.

did not create a new Program ID to resolve this discrepancy. This discrepancy will not be present in the 2022 ABAL.

OBF Loan Pool Budget

PG&E's 2021 OBF loan pool contribution budget of \$17,000,000 is included in PG&E's advice letter total portfolio budget but excluded from total portfolio budget shown in the CEDARS dashboard for the 2021 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, they are funds contributing to PG&E's revolving loan pool that is not captured in portfolio budget through CEDARS expenditures reporting.

PG&E Administrative Support for RENs

PG&E administrative support for RENs comprises a cost that is excluded in PG&E's advice letter TRC and PAC but included from the TRC and PAC on the CEDARS dashboard for the 2021 filing. D.19-12-021 OP 5 requires PG&E to forecast administrative costs necessary to fulfill its role as fiscal agent to the RENs and to consider these costs separately in cost-effectiveness analysis starting in 2021. PG&E set up accounting mechanisms at the end of 2019 to track these costs and will be reporting these expenditures for program year 2020. PG&E has used its 2020 spend to date of \$58,799 for fiscal agent administrative costs through June 2020 (six months) to estimate an annualized cost (12 months) of \$117,598 for this work in program year 2021.

The budget to support these administrative costs is embedded in the total portfolio budget presented in Table 1 and not broken out separately in PG&E's 2021 ABAL forecast on CEDARS. Because PG&E's CEDARS forecast does not include a separate Program ID to capture these REN administrative costs distinct from the rest of its portfolio, these costs were not excluded from the TRC and PAC calculations in CEDARS. The portfolio TRC and PAC shown in Table 2 exclude REN administrative costs as directed by D.19-12-021. The exclusion of these costs does not materially impact the 2021 portfolio TRC and PAC values with or without codes and standards.

OBF Cost of Capital

OBF cost of capital (COC) comprises a cost that is included in PG&E's advice letter TRC and PAC but excluded from the TRC and PAC on the CEDARS dashboard for the 2021 filing. PG&E calculated cost effectiveness for OBF using an approach consistent with PG&E's 2020 Supplemental ABAL and 2019 Second Supplemental ABAL,²⁵ in which COC is treated as an incentive cost, as these are funds that benefit customers that are not recouped through loan repayments.²⁶ As described in its 2020 ABAL, PG&E is

²⁵ Second Supplemental Advice 4011-G-B/5375-E-B, p.16 and Supplemental Advice 4136-G-A/5627-E-A, p.16.

The cost of capital incentive forecast is a function of the 2021 forecasted OBF loan origination totals (equal to the OBF Alternative Pathway program forecast's gross measure cost total, against which loans will be sized) and a weighted average cost of capital (WACC) estimate of 7.5%.

reducing the cost of capital (COC) incentive amount by the complement of the net-to-gross (NTG) value (i.e. 1 - NTG) consistent with Commission policy on the TRC treatment of incentive costs because the COC benefits the non-freerider participants.²⁷ However, the COC is not a program incentive expenditure that appears in CEDARS, unlike the incentives for other programs, and is not a component of the portfolio budget. Thus, the total COC incentive costs of \$220,772 are not included in portfolio data filed on CEDARS, or in the TRC and PAC values calculated on CEDARS as a function of the filing data inputs. The inclusion of these COC incentive costs does not materially impact the 2021 portfolio TRC and PAC values with or without codes and standards.

Table 3: Summary of Advice Letter and CEDARS Discrepancy Sources

Discrepancy	Source	OBF Loan Pool Contribution Budget (\$17,000,000)	OBF COC Incentive Cost (\$220,772)	REN Fiscal Agent Administrative Support Costs (\$117,598)
PG&E Total	CEDARS Dashboard	Excluded	n/a	n/a
Portfolio Budget	Advice Letter	Included	n/a	n/a
PG&E Portfolio TRC and PAC,	CEDARS Dashboard	n/a	Excluded	Included
with and without C&S	Advice Letter	n/a	Included	Excluded

Table 4: Summary of 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	\$220,967,635	0.92	1.29	1.94	6.78
Advice Letter	\$237,967,635	0.92	1.29	1.94	6.78

⁽a) No discrepancies in TRC and PAC values are apparent between the CEDARS dashboard and the advice letter 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.

B. Business Plan Revision

As noted in Section III.A, PG&E forecasts a portfolio TRC of less than 1.0 without C&S or market effects for 2021, which triggers the requirement for PG&E to file a new business plan application per D.15-10-028, OP 2. PG&E triggered a new business plan application filing with its 2020 ABAL filed in 2019, in which it forecast a portfolio TRC of less than 1.0 without C&S or market effects. PG&E did not file a new Business Plan application on

²⁷ D.07-09-043 describes the role of NTG in the TRC calculation of net participant costs, with detailed TRC cost calculations showing the derivation of incentives x (1-NTG) in D.07-09-043 Attachment 9.

September 1, 2020 because the CPUC has directed PG&E and the other California PAs to submit revised business plan applications on September 1, 2021, which will include considerations regarding the COVID-19 pandemic.²⁸

C. Forecast Approach

PG&E's 2021 ABAL reflects its continued focus on transitioning its portfolio to a predominantly third-party outsourced portfolio. This forecast assumes PG&E will achieve the 40% outsourcing target by December 31, 2020.²⁹ 2021 will be a year of transition, focusing on ramping down any remaining non-third-party qualified programs and ramping up new local and SW programs.

New Local Programs

PG&E signed new local programs across all five sectors (Industrial, Agricultural, Public, Commercial, and Residential) through the first wave of PG&E's local multi-sector third-party solicitation. The Industrial, Agricultural, and Public sectors are fully covered, while coverage for the commercial and residential sectors will be addressed in the second wave of PG&E's local multi-sector third-party solicitation that is currently underway. Because commercial and residential sector program contracts are still pending, this 2021 ABAL filing includes placeholder forecasts for new local programs in the commercial and residential sectors. Local Government Partnership (LGP) non-resource programs launched in July 2020 to support local governments, especially those serving HTR and DAC, as well as resource acquisition programs in the Public sector and are included in this 2021 forecast. All new local program forecasts for these sectors incorporate forecasts submitted by third parties that were awarded contracts through PG&E's solicitations. Third parties will have a greater responsibility to deliver verifiable and persistent energy savings and understand and abide by all policies and regulations that govern energy-efficiency programs and platforms.

New Statewide Programs

For SW programs, this 2021 ABAL forecast relies on forecasts provided by Lead PAs for programs in which PG&E is a funding PA, and includes PG&E-developed forecasts for those in which PG&E is the Lead PA. PG&E is the Lead PA for the following SW programs:

- Codes & Standards Advocacy (National, State Appliances, and Building Codes)
- New Construction (Residential and Non-Residential)
- Institutional Partnerships State of California and Department of Corrections and Rehabilitation
- Workforce Education & Training (WE&T) Career & Workforce Readiness
- Workforce Education & Training (WE&T) Career Connections

²⁸ Amended Scoping Ruling Addressing Impacts of COVID-19 (Amended Scoping Ruling), issued July 3, 2020.

²⁹ D.18-01-004, OP 1

New Codes & Standards' National and State Appliance Advocacy programs launched in 2020, while a new Codes & Standards' Building Codes Advocacy program launched in 2019. The remaining PG&E-led SW programs are expected to launch in 2021.

While PG&E is the largest proportional load share contributor amongst the IOUs for SW programs, it is only the lead for two resource-acquisition SW programs³⁰ and therefore will be reliant on the other IOU Lead PAs to deliver cost-effective savings through their third-party implemented programs. PG&E will fund statewide programs as required³¹ and therefore will receive energy savings credit based on this funding contribution. SW programs account for approximately 16% of the 2021 portfolio budget (excluding C&S costs and OBF loan pool contribution) but approximately 5% of PG&E's 2021 first-year net kWh savings forecast (excluding C&S), and approximately 10% PG&E's 2021 first-year net therm savings forecast (excluding C&S).

Existing Programs

This 2021 ABAL forecast includes the following existing programs in Table 5 that qualify under the new third-party definition.³²

Table 5: Existing Programs that Qualify Under the New Third-Party Definition(a)

2021 Program ID ^(a)	2021 Program Description (b)	Corresponding 2020 Program ID	Corresponding 2020 Program Description	
PGE_Res_001a	Pay for Performance – Comfortable Home Rebates			
PGE_Res_001b	Pay for Performance – Home Intel	PGE210010	Pay for Performance Pilot	
PGE_Res_001c	Pay for Performance – Home Energy Rewards	FGE210010	ray ioi renormance rhot	
PGE_Res_001d	Pay for Performance – Home Energy Optimization			
PGE_Res_002a Residential Energy Advisor – Home Energy Check-Ups		PGE21001	Residential Energy Advisor	
PGE_Res_002c	PGE_Res_002c Residential Energy Advisor – Home Energy Reports			
PGE210212	Compressed Air and Vacuum Optimization Program (aka Industrial Compressed Air Systems Efficiency, or iCASE)	PGE210212	Compressed Air and Vacuum Optimization Program (aka Industrial Compressed Air Systems Efficiency, or iCASE)	
PGE_SW_CSA_App	State Appliance Standards Advocacy	PGE_SW_CSA_App	State Appliance Standards Advocacy	
PGE_SW_CSA_Bldg	State Building Codes Advocacy	PGE_SW_CSA_Bldg	State Building Codes Advocacy	
PGE_SW_CSA_Natl	National Codes & Standards Advocacy	PGE_SW_CSA_NatI	National Codes & Standards Advocacy	

(a) "Existing programs" in this table refers to programs that were operating in 2020 and will continue to operate in 2021. New Codes & Standards National and State Appliance Standards Advocacy contracts awarded via Solicitation in Q1

New Construction and Institutional Partnerships (State of California and Department of Corrections and Rehabilitation).

³¹ D.18-05-41, OP 22.

³² D.16-08-019, OP 10

2020 and therefore are existing programs that will continue into 2021. New State Building Codes Advocacy contracts were awarded in 2019 and will continue into 2021.

(b) The 2020 Pay for Performance Pilot program (PGE210010) is broken out into four separate Program IDs for each implementer (PGE_Res_001a, PGE_Res_001b, PGE_Res_001c, and PGE_Res_001d) for the 2021 ABAL filing. Similarly, the 2020 Residential Energy Advisor Program (PGE21001) is broken out into three separate Program IDs for each subprogram (PGE_Res_002a, PGE_Res_002b, and PGE_Res_002c) for the 2021 ABAL filing. Only programs PGE_Res_002a for Home Energy Check-Ups and PGE_Res_002c for Home Energy Reports are included in this table. See Section III.G. of this advice letter for more details on Program ID changes resulting from Program ID Reorganization.

This forecast also includes existing non-third-party qualifying programs (both PG&E-implemented and vendor-implemented programs). PG&E is extending and continuing budget for select vendor-implemented existing programs to ensure portfolio flexibility to address impacts from the COVID-19 pandemic and ensure customer coverage until the new local and SW programs ramp up in 2021 or beyond. PG&E-implemented programs remain in the portfolio in 2021 to close out existing pipelines of already committed customer projects or to serve customers who may not be served by one of the third party implemented programs.

PG&E is also forecasting the continuation of the Home Energy Reports behavioral program offering of the Residential Energy Advisor program for part of 2021. While a new residential behavioral program is expected to be under contract by the end of 2020 and launch in 2021, replacing the current Home Energy Reports program, PG&E anticipates its current Home Energy Reports program to operate in 2021 before the new program ramps up. As discussed under the 2021 Program Changes of this advice letter (Section III.G), PG&E will be splitting up its 2020 Residential Energy Advisor Program ID (PGE21001) into three separate Program IDs for 2021 to distinguish among distinct Residential Energy Advisor program offerings; these new 2021 Program IDs are listed in Table 12 of Section III.G. One of these new 2021 Program IDs (PGE Res 002c) will cover the Home Energy Reports component of the Residential Energy Advisor program, 33 for which program activity is forecasted for at least the first quarter of 2021. PG&E has also included a placeholder forecast for the new third-party residential program that has yet to be contracted, but will be operating in 2021, captured under a third-party residential placeholder Program ID (PGE_3P_Res). The forecasts for the existing Home Energy Reports program (PGE Res 002c) and the new residential behavioral placeholder (PGE_3P_Res) reflect the expected transition from the existing to the new residential behavioral program.

D. COVID-19 Considerations

PG&E developed this 2021 ABAL forecast amidst a period of unprecedented economic and market uncertainty due to the global pandemic caused by COVID-19. While it is impossible to confidently predict the precise impact of the pandemic on PG&E's EE portfolio or individual customer sectors, PG&E observed the following trends in the

³³ Per Table 12 in Section III.G., the new 2021 Program ID for the Home Energy Reports component of the 2020 Residential Energy Advisor program will be "PGE_Res_002c" with the accompanying 2021 program name "Residential Energy Advisor - Home Energy Reports".

residential and non-residential sectors of its EE portfolio and has adjusted some of its approaches to customer engagement as a result. Because the extent and duration of the impact of the COVID-19 global pandemic is uncertain, PG&E will strive to remain flexible in its COVID-19 response.

Residential Trends

Since Governor Newsom issued the statewide Shelter-in-Place (SIP) order on March 19, 2020, residential energy usage increased as Californians stayed home. Based on a July 2020 report by the California Energy Commission, residential energy usage increased by approximately 15% year-to-date compared to the same period in 2019. ³⁴ As a result, residential customers want tips on how to save energy and information on home energy usage, high bill alerts, and EE programs. ³⁵ PG&E's residential sector savings continue to be driven by behavioral programs which, to date, have not seen a decline in forecasted savings due to the pandemic. SIP poses a challenge to completing certain program installations, such as for direct install (DI) programs. As cities and counties reopen in California, customers and contractors continue to observe local and state guidelines to ensure that safe installations can occur. In this period of uncertainty and economic downturn, the needs of Hard-to-reach (HTR) and Disadvantaged Communities (DAC) may be more pronounced as the economic impacts are likely most heavily felt by those communities.

Residential Actions

In 2020, in recognition of the shift in the way residential customers are using energy. PG&E worked both internally and with third-party residential program implementers on several actions that are expected to continue in some capacity into 2021 and are reflected in this 2021 ABAL forecast. These actions include increased communications with regular COVID-19 support emails approximately every 10-20 days, which are sent to roughly 3.3 million customers. PG&E's COVID-19 Customer Support Outreach highlights billing and service modifications, safety tips, financial assistance programs, online tools for energy use, and low- or no-cost energy-efficiency programs and energy-savings tips. PG&E expanded the number of customers receiving Home Energy Reports (HERs), adding 160,000 customers. HERs now serves a total of 1.8 million customers, which consists of approximately 40% income-gualified customers and 60% non-income gualified customers. PG&E also plans to add a new feature to the HERs program called Bill Forecast Alerts (BFAs) that will alert customers who reach a certain billing or energy usage threshold and provide behavioral tips to reduce their usage. PG&E believes that these expansions of HERs will support customers impacted by COVID-19 while also driving cost-effective savings for the portfolio.

Additionally, PG&E expanded the service area for one of its Residential Pay-for-Performance Programs, the Home Energy Rewards program, from serving two counties

³⁴ https://www.energy.ca.gov/sites/default/files/2020-07/Energy%20Insights_FINAL%2007-17-2020.pdf

³⁵ Oracle Customer Survey, May 2020.

to PG&E's entire service area. This program provides free energy kits to customers and a significantly reduced price for smart thermostats, among other benefits.

Non-Residential Trends

As Californians stayed home with the March 2020 SIP order and electricity consumption shifted from non-residential to residential, the impact to non-residential industries varied based upon factors such as their designation as an "essential" business, or the level of vulnerability to the impacts of decreased in-person business activities.

The economic impact to "essential" businesses such as grocery stores, laboratories, data centers, and communications has been positive, given that these businesses remain open and have seen an increase in demand. However, many businesses whose models are heavily reliant on in-person business activities such as hospitality, restaurants, retail, etc. - that are not deemed "essential" - have been negatively impacted, triggering additional economic hardship for the businesses as well as the individuals who are now unemployed in these industries.³⁶ These economic forces are severely impacting demand, discretionary spending, and supply chains, and may force some businesses to transform their business models. The uncertain future for many businesses increases the perceived risk from financial institutions that provide access to capital, resulting in higher costs for those businesses to borrow money as well as impacts to their ability or desire to spend available capital on EE projects.

Before Governor Newsom's recently enacted revised budget, there was a projected \$54 billion budget deficit due to sharply reduced state revenues, increased costs in health and human services programs, and added costs to address COVID-19.³⁷ The enacted budget places an emphasis on public health and safety, and promotes economic recovery, particularly for small businesses. With critical federal funding to aid state and local governments still uncertain, there is a trickle-down impact to areas reliant on this funding such as K-12 schools and higher education, particularly for EE investments.

Non-Residential Actions

On March 16, 2020, seven Bay Area jurisdictions³⁸ enacted stay-at-home orders beginning March 17, 2020. On March 20, 2020 PG&E's EE programs issued "stop work" orders to contractors providing home and other in-person EE and weatherization upgrades in alignment with the statewide SIP guidelines. On June 1, 2020, based on State and CPUC guidance, PG&E's EE Programs resumed in-person work in accordance with local and state SIP guidelines, requiring contracted implementers to obtain written customer authorization to visit their site, and document and adhere to State and local

³⁶ As of June 2020, California's unemployment rate of 14.9%, while lower than the record high of 16.4% in May 2020, is still far higher than the 12.3% during the height of the Great Recession in 2010. More information accessible via https://www.edd.ca.gov/newsroom/unemployment-july-2020.htm.

³⁷ http://www.ebudget.ca.gov/2020-21/pdf/Enacted/BudgetSummary/FullBudgetSummary.pdf

³⁸ Jurisdictions include Alameda, Contra Costa, Marin, San Francisco, San Mateo, and Santa Clara counties, and City of Berkeley.

safety guidance - whichever is more restrictive. PG&E is prepared to take similar action and re-instate a pause to EE programs should conditions warrant such a response. Going forward, PG&E will continue to prioritize the health and safety of is customers, employees, and contractors, while actively monitoring performance across its portfolio.

Given the financial and capital constraints that many businesses are experiencing, PG&E's financing programs such as On-Bill Financing (OBF) offer non-residential customers increased access to affordable capital to invest in EE upgrades to their businesses without upfront capital, while remaining cash flow neutral. Unlike traditional rebate and incentive programs where a customer must otherwise have the capital to invest in the project, financing offers customers the ability to make an EE investment when they may not have otherwise been able to make one. OBF uses a revolving loan pool: as OBF funds are repaid, they are re-issued in the form of new loans with new projects, providing greater leverage for ratepayer funds. This structure enables the continued investment in EE projects without significant impacts to the EE portfolio budget and budget recovery request.

PG&E is requesting an increase of \$3,500,000 in the OBF loan pool contribution relative to the 2020 ABAL for a total of \$17,000,000 to ensure that the revolving loan pool is sufficiently funded to accommodate the potential for increased demand. For example, local governments will continue to have a role to play in helping California achieve its ambitious climate goals, and many have Climate Action Plans that they will still need to pursue while managing within the global pandemic. The increases to PG&E's OBF loan pool and the potential to make loans of up to \$4,000,000 available, by exception, for projects with unique energy savings opportunities,³⁹ can be leveraged to support these local governments pursue activities within their respective Climate Action Plans.

To support customers in this challenging economic landscape, PG&E anticipates the potential for increased budget for the same/similar levels of savings for programs that would be achieved in the absence of the pandemic. As noted in Section III.C, this 2021 ABAL forecast includes existing program extensions to ensure portfolio flexibility to address impacts from the COVID-19 pandemic.

E. Cost-Effectiveness Challenges

As noted in Section III.A, PG&E is forecasting a portfolio TRC of 0.92 without C&S or market effects for 2021. PG&E's 2021 portfolio reflects a 30% increase in cost-effectiveness relative to its 2020 ABAL forecasted TRC of 0.71 without C&S or market effects. However, PG&E's portfolio still faces cost-effectiveness challenges including the diminished availability of high-volume measures with positive net benefits, the downward trend of avoided costs, the inclusion of non-resource programs and costs in

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³⁹ D.19-03-001, p. 2.

⁴⁰ Advice 4136-G/5627-E filed September 3, 2020, and Advice 4136-G-A/5627-E-A, filed November 15, 2019. Non-standard disposition of Advice 4136-G/5627-E and Advice 4136-G-A/5627-E-A dated December 20, 2019 and issued on December 24, 2019.

PG&E's portfolio that must be offset by resource program benefits, and the exclusion of C&S from the threshold TRC and PAC tests. As a result of the cost-effectiveness challenges below, PG&E is not forecasting a cost-effective portfolio in 2021. In addition, PG&E's portfolio cost-effectiveness may likely be further impacted by COVID-19 pandemic uncertainty during portfolio implementation.

Diminished Availability of High-Volume, Positive-Net-Benefit Measures

PG&E's recent portfolios through 2019 were heavily reliant on programs such as Primary Lighting to contribute significant, positive net benefits.⁴¹ Historically, these high-volume measures with positive net benefits have been critical to bringing in enough portfolio TRC benefits to offset the multitude of TRC costs in the portfolio. While the Residential Lighting savings potential and associated positive net benefits were eliminated from incentive programs, these savings have been absorbed by the C&S programs. The C&S absorption of measures that were previously highly cost-effective in incentive programs has outpaced the creation of cost-effective opportunities in incentive programs. This has contributed to the challenges in achieving a cost-effective portfolio without the inclusion of C&S benefits.

Downward Trend of Electric Avoided Costs

Electric avoided costs comprise a majority of PG&E's energy-efficiency portfolio benefits, and the downward trend in the value of electric avoided cost benefits since 2017 has presented a significant challenge to achieving a cost-effective portfolio. Although average electric avoided cost benefits have increased with the 2020 avoided cost update⁴² relative to the 2019 avoided cost update, mid-day electric avoided cost benefits have decreased substantially relative to pre-2017 avoided costs, resulting in fewer avoided cost benefits realized for a given kilowatt-hour of electricity saved in the EE portfolio.

Non-Resource and "Policy-Driven" Programs

The IOUs are expected to fund activities outside of EE resource acquisition such as non-resource (e.g. workforce education and training) and policy programs focused on policy objectives (e.g. social equity programs such as those aimed at serving HTR, DAC and market transformation programs designed to achieve long-term EE savings impacts in support of state climate goals). However, these programs do not produce immediately quantifiable cost-effective savings while contributing to portfolio costs in the threshold portfolio TRC calculation. EE portfolios are expected to fund these activities in addition to programs focused on EE resource acquisition, while also cost-effectively delivering on energy savings goals within budget.⁴³ However, non-resource programs may not necessarily play any role in achieving cost-effective energy savings goals because they

⁴¹ Net TRC Benefits = Benefits – TRC Costs.

⁴² Resolution E-5077 adopted updates to the avoided cost calculator for use in demand-side distributed energy resources cost-effectiveness analyses.

⁴³ D.18-05-041 Findings of Fact 16.

do not provide direct energy savings and only have costs, yet frequently provide necessary support to resource programs.⁴⁴

Exclusion of C&S from Threshold TRC and PAC Tests

Another challenge in meeting portfolio cost-effectiveness goals is that savings from C&S activities are not included in the threshold portfolio TRC and PAC tests. When the Commission confirmed the exclusion of C&S from the threshold TRC and PAC tests in 2012,⁴⁵ C&S composed a small part of the EE portfolio, but that is no longer the case. After years of effective advocacy for C&S by the PAs, many measures have successfully led to implementation through C&S. For example, C&S savings accounted for only 9% of total savings in the 2006 – 2008 program cycle;⁴⁶ however, C&S savings were forecasted to be 63% of first-year net GWh for the 2020 statewide portfolio.⁴⁷ The role of C&S as a "bonus" contributor to the overall EE portfolio no longer reflects the magnitude of savings and benefits that C&S delivers relative to the rest of the EE portfolio. PG&E has recognized C&S as one of the most cost-effective channels for EE interventions and has invested accordingly; however, this disparity between the C&S and non-C&S portfolios will grow as a result of this investment. Thus, the more successful PG&E is at using C&S to drive savings at lower cost, the more challenging it is for the remaining portfolio to be cost-effective.

F. Portfolio Strategies to Improve Cost-Effectiveness in 2021

Portfolio Management and Balancing

PG&E pursues portfolio management tactics to address cost-effectiveness in its portfolio. PG&E emphasizes cost-effective programs and encourages innovative and market-driven solutions through its third-party solicitations. As PG&E transitions its portfolio towards the 60% outsourcing target by the end of 2022,⁴⁸ it has prioritized the introduction of new local and statewide third-party programs over maintaining existing programs. In order to optimize and balance the portfolio, PG&E also manages budget allocations for activities outside of EE resource acquisition to mitigate against the negative net benefits incurred by these expenditures in the portfolio. Lastly, PG&E intends to monitor the impact of its statewide programs on cost-effectiveness.

As noted in Section III.C, while PG&E is the largest proportional load share contributor amongst the IOUs for statewide programs, it is only the lead for two resource-acquisition statewide programs, ⁴⁹ and therefore will be reliant on the other Lead IOUs to deliver cost-

⁴⁵ D.12-11-015, p.99.

⁴⁴ D.12-05-015, p.11

⁴⁶ D.12-05-015, p. 85.

⁴⁷ Budget Filing Detailed Report for program year 2020, downloadable from the CPUC's CEDARS website.

⁴⁸ D. 18-01-004, OP 1

⁴⁹ New Construction and Institutional Partnerships (State of CA, Department of General Services, and Department of Corrections and Rehabilitation)

effective savings through their third-party implemented programs. PG&E will fund statewide programs as required⁵⁰ and therefore receive energy savings credit based on this funding contribution. Should those programs underperform, PG&E will need to rebalance and adjust for that underperformance within the program year by relying more on its local resource programs. Or, in the event that they overperform, this may enable PG&E to rely less on its local resource programs.

In addition to the non-resource programs mentioned above, PG&E's portfolio administrator costs required to run its EE portfolio are included in the threshold portfolio TRC calculation and must be offset by resource-acquisition program benefits. PG&E is committed to continuing to thoughtfully manage its portfolio administrator costs, as demonstrated by the 30% reduction in total portfolio administrator costs between 2018 and 2021.51 As PG&E's portfolio begins its transition to a predominantly outsourced portfolio, as portfolio administrator, PG&E will 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 PG&E will retain 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: evaluation, measurement and verification (EM&V) support; and IT investments.

Program-related portfolio administrator costs are those that more directly support programs within PG&E's portfolio and vary based upon the number or scale of programs. Examples of these costs include roles such as engineering reviews, quality assurance and quality control (QA/QC), contract management, account management/sales and marketing, education, and outreach (ME&O). Starting in 2021, when possible, PG&E will be tracking program-related costs as direct charges to individual programs to more accurately allocate program-related portfolio administrator costs to the specific program supported by PG&E staff.

Responding to Changing Market and Regulatory Conditions

Many of the market and regulatory conditions under which PG&E's EE portfolio operates are outside of its control. Thus, PG&E is focusing on opportunities relatively within its control to respond to those inevitable changing conditions. PG&E will continue to actively participate in regulatory proceedings that may be impactful to cost effectiveness and long-term success of the EE portfolio. Additionally, in anticipation of (a) market or regulatory

⁵⁰ D.18-05-41 OP 22.

⁵¹ PG&E's portfolio administrator costs are comprised of the functional groups in Attachment 3, Appendix I.A.5, excluding third-party implementer contract costs, local government partnership contract costs, program implementation non-labor costs, and incentive costs.

conditions that may substantially impact programs, and (b) opportunities to monitor ongoing program performance, PG&E will continue annual program reviews and will realign programs as necessary. Lastly, as customers seek on-bill financing support for their projects amidst the current economic uncertainty, PG&E has instituted cost-effectiveness requirements for large on-bill financing projects to help balance customer and portfolio cost-effectiveness needs.

Portfolio Administrator Activities

Acting as a portfolio administrator of a majority-outsourced portfolio necessitates strong QA/QC in the selection of those third-party programs via solicitations and for program performance once launched. PG&E will continue to provide critical oversight activities to ensure that ratepayer funds are prudently used. PG&E will ensure that savings claims of third-party implementers are reasonable, accurate, and in compliance with CPUC policy. PG&E expects this responsibility to increase with the expansion of third-party implemented programs. QA/QC program performance and ex ante/ex post alignment. Additionally, PG&E is aligning stakeholder interests on cost-effective offerings and projects through contract terms that encourage performance-based payments. To facilitate this, PG&E is investing in IT system changes to enable effective contract management.

G. 2021 Program Changes

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 first major third-party program outsourcing milestone requirement as of June 30, 2020,⁵² with 25% of its EE portfolio budget now under contract to third-party implementers pending Commission review of PG&E's Tier 2 advice letters seeking approval of new third-party contracts valued at \$5 million or more and/or with a contract duration longer than three years.⁵³ The portfolio balancing necessary to onboard these new programs, which are expected to support PG&E's portfolio cost-effectiveness goals, requires the ramp down and closure of existing programs.⁵⁴

The program budget changes described in the section reflect budgets that changed by 40% or more relative to program budgets approved in its 2020 ABAL in accordance with D.18-05-041 OP 41 and section 7.2.⁵⁵ Program changes and closures are detailed in the following sections and summarized in Attachment 2 to this advice letter.

⁵² D.18-05-041, OP4.

⁵³ D.18-01-004, OP 5.

For the purposes of this 2021 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 2021 and beyond, in order to meet outstanding program commitments and complete project pipelines in place prior to closure.

⁵⁵ See Attachment 4, Appendix Table 4 for the 2021 budgets associated with these programs.

Programs to be closed immediately with the disposition of the 2021 ABAL

PG&E intends to close fourteen existing programs starting in 2021, pending the disposition of this advice letter. These programs, shown in Table 6 below, are closing as a result of overlap with the new local third-party and/or statewide programs that are expected to be active in 2021, and to make room in the portfolio for new programs that qualify under the new third-party definition.⁵⁶ These programs are not included in PG&E's 2021 ABAL CEDARS filing.

Table 6: Programs to be Closed Immediately with the Disposition of the 2021 ABAL

Program ID	Program Name	Closure Date
PGE21008	Enhance Time Delay Relay	12/2020
PGE210011	Residential Energy Fitness Program	12/2020
PGE21003	Multifamily Energy Efficiency Program	12/2020
PGE21009	Direct Install for Manufactured and Mobile Homes	12/2020
PGE210112	School Energy Efficiency	12/2020
PGE210123	Healthcare Energy Efficiency Program	12/2020
PGE210135	Water Infrastructure and System Efficiency (WISE)	12/2020
PGE21015	Commercial HVAC	12/2020
PGE21018	EnergySmart Grocer Program	12/2020
PGE21026	Energy Efficiency Services for Oil Production	12/2020
PGE210311	Process Wastewater Treatment Energy Management Program for Ag Food Processing	12/2020
PGE210312	Dairy and Winery Industry Efficiency Solutions	12/2020
PGE21039	Comprehensive Food Process Audit & Resource Efficiency (CFP)	12/2020
PGE2110052	Strategic Energy Resources	12/2020
PGE21061	Technology Development Support	12/2020
PGE21076	Career and Workforce Readiness ^(a)	12/2020
PGE21041	Primary Lighting	12/2019 ^(b)
PGE21042	Lighting Innovation	12/2019 ^(b)
PGE21051	Building Codes Advocacy	12/2020 ^(c)
PGE21052	Appliance Standards Advocacy	12/2020 ^(c)
PGE21057	National Codes and Standards Advocacy	12/2020 ^(c)

⁵⁶ D.16-08-019, OP 10.

- (a) The Career and Workforce Readiness program had no program expenditures in PY2019 and has no program expenditures to date in PY2020. This program was set up in 2019 in anticipation of supporting the launch of the SW WE&T Career and Workforce Readiness program that was ultimately delayed until 2021. This program is being sunset now that the new SW WE&T Career and Workforce Readiness program is launching in 2021 (see Table 10 below).
- (b) The Primary Lighting Program (PGE21041) and Lighting Innovation Program (PGE21042) ceased program activity at the end of 2019, however there were residual expenditures in early 2020. In 2019, the Primary Lighting Program was an upstream lighting program focused primarily on incentivizing the manufacture of advanced lightemitting diodes (LEDs). D.19-08-034 adopted goals that updated the baseline for residential lighting to LEDs effective January 1, 2020, significantly reducing the cost-effective savings potential for this program. PG&E indicated in its 2020 ABAL that no program activities were expected for the Primary Lighting Program in 2020, but did not formally close the program until Southern California Edison (SCE) as the SW Lead closed its Primary Lighting Program, which was signaled in its 2020 ABAL (Advice 4068-E). The Lighting Innovation Program was a non-resource program that evaluated products or program approaches new to the lighting market for eventual transfer to EE portfolios. PG&E completed its last trial study for this Program in 2019 and requests to formally close this program via this advice letter, following the SW lighting lead SCE in its closure of the Lighting Innovation Program in its 2019 ABAL (Advice 3859-E). Any future research on advanced lighting can be administered via the Emerging Technologies Program. A new SW lighting program is launching in 2021; see program PGE_SW_UL in Table 10 of this advice letter.
- (c) The C&S Building Codes Advocacy program (PGE21051), Appliance Standards Advocacy program (PGE21052), and National Codes and Standards Advocacy program (PGE20157) are being replaced by the new statewide programs PGE_SW_CSA_Bldg, PGE_SW_CSA_App, and PGE_SW_CSA_Natl, respectively. These new SW programs are shown in Table 8.

Additionally, PG&E notes that activities from the Energy Upgrade California program (PGE21004, known as Advanced Home Upgrade) and the Residential HVAC program (PGE21006) were moved to the Residential Pay for Performance program, which includes similar offerings and opportunities for operational efficiencies as a result of the consolidation. The Program IDs for these programs will be retired in CEDARS, however the program activities will continue under the additional program as described. See the section below titled "Program ID Changes Resulting from Program ID Reorganization" for more details on this transition.

Programs to be Closed Upon Completion of Commitments

PG&E's 2021 ABAL forecast includes budgets for many programs that it plans to close upon completion of program commitments, notwithstanding any unforeseen impacts or customer needs associated with the COVID-19 pandemic. The programs are in the process of ramping down, in most cases as a result of overlap with new, local third-party programs and/or statewide programs ramping up in 2021.

Table 7: Programs to be Closed Upon Completion of Commitments

Program ID	Program Name	% Budget Change from 2020	Reason for Closure	Contract Extension Date	Explanation
PGE2110051	Local Government Energy Action Resources (LGEAR)	-72%	New local third- party and/or statewide program overlap	09/2021	Previous Energy Watch programs, funded through LGEAR, will ramp down and close direct install programs by the end of 2020, but select contracts have been extended into 2021 to gap-fill for incoming third-party programs.
PGE210210	Industrial Retro- commissioning Program	+4%	New local third- party and/or statewide program overlap	2021 (Month TBD)	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap.
PGE21036	Industrial Refrigeration Performance Plus (IRPP)	N/A ^(a)	Low savings achievement	2021 (Month TBD)	PG&E's 2019 EE Annual Reportfiled May 1, 2020 noted this program was expected to ramp down and close by 2021. Budget ramp-down for closing out project costs was also mentioned in PG&E's 2019 and 2020 ABALs as well as Appendix B of PG&E's 2020 ABAL workshop presentation. (a)
PGE211025	Savings by Design	+9%	New local third- party and/or statewide program overlap	n/a ^(b)	Finishing existing project pipeline in anticipation of SW replacement program. Program not accepting new applications.
PGE210143	Hospitality Program ^(c)	+20%	New local third- party and/or statewide program overlap	06/2021	New local Commercial resource program(s) are expected to replace this program upon launch in mid-2021. Extended into 2021 to ensure customer coverage due to COVID-19 impacts.
PGE21027	Heavy Industry Energy Efficiency Program	-66%	New local third- party and/or statewide program overlap	2021 (Month TBD)	Ramping down in anticipation of new third- party program overlap.
PGE21092	Third-Party Financing	0% ^(d)	No future program spending expected	2021 or 2022 (Month and Year TBD)	Contract still in place for management of remaining third-party loan pool, however no 2021 spend expected.
PGE21005	California Residential New Construction	+2%	New local third- party and/or statewide program overlap	2022 (Month TBD)	This program will be replaced by a new SW Residential New Construction program. Per notes in PG&E AL 4270-G/5867-E, the Advanced Energy Rebuild portion of this program will close to new applications at the end of 2020, with existing project pipeline to complete in 2021.
PGE21007	California New Homes Multifamily	+7%	New local third- party and/or statewide program overlap	2022 (Month TBD)	This program will be replaced by a new SW Multifamily New Construction program.
PGE2110011	California Community Colleges	+71%	New local third- party and/or statewide program overlap	2022 (Month TBD)	Increased budget to finish large existing projects continuing into 2021 or 2022. Ramping down in anticipation of new SW program overlap.
PGE2110012	University of California/Calif-	+358%	New local third- party and/or	2022 (Month TBD)	Increased budget to finish large existing projects continuing into 2021 or 2022.

	ornia State University		statewide program overlap		Ramping down in anticipation of new SW program overlap.
PGE2110013	State of California	+23%	New local third- party and/or statewide program overlap	,	Increased budget to finish large existing projects continuing into 2021. Ramping down in anticipation of new SW program overlap.
PGE2110014	Department of Corrections and Rehabilitation	+52%	New local third- party and/or statewide program overlap	,	Increased budget to finish large existing projects continuing into 2021. Ramping down in anticipation of new SW program overlap.

(a)The IRPP budget change is shown as "N/A" because \$0 were forecast for the 2020 ABAL, and approximately \$25k is forecasted for 2021. The long project close-out process has resulted in final project costs occurring in 2021 despite \$0 budget in 2020 as noted in PG&E's 2020 ABAL, Advice 4136-G-A/5627-E-A, p.18. PG&E's 2020 ABAL workshop presentation Appendix B also noted this program would "close upon completion of commitments" (presentation distributed to the EE service lists R.13-11-005 and A.17-01-013 on May 6, 2020). Lastly, PG&E's 2019 ABAL discussed a planned sunset of this program in Advice 4011-G/5373-E p.27, and via second supplemental Advice 4011-G-B/5373-E p.3 noted this program was forecasted with continued 2019 budget to enable a small number of project completions.

- (b) The Savings by Design program does not have an implementer contract, thus this field is marked as "n/a"; however, the program ramp-down is expected to be complete by 2022.
- (c) The Hospitality Program primarily serves the hospitality sector but has evolved over the past three years to also serve grocery, small retail, office, and restaurant sectors as well. While the hospitality sector has been heavily impacted by COVID-19, other sectors have contributed to the remaining program pipeline. This program will be closing upon completion of its committed projects and is expected to sunset in June of 2021. The program name is not adjusted in the table above due to the cost to implement this change. The 2021 forecast reflects a budget increase from the 2020 ABAL, however due to incrementally cost-effective savings opportunities in 2020, the program's funding increased relative to the 2020 ABAL program forecast. The 2021 ABAL budget is a reduction relative to the 2020 operational budget.
- (d) The Third-Party Financing program budget change is shown as "0%" because \$0 were forecasted for the 2020 ABAL, and \$0 are forecasted for the 2021 ABAL. While no spend is anticipated in 2021 for this program, the Program ID will remain "active" in 2021 because there is currently an active third-party contract in place for the management of third-party loan pool funds, and future spend is possible in this program but will be handled through fund-shifting if needed. PG&E's 2020 ABAL workshop presentation Appendix B also noted this program would "close upon completion of commitments" (presentation distributed to the EE service lists R.13-11-005 and A.17-01-013 on May 6, 2020).

Programs with Budget Changes of 40% or More Relative to the 2020 ABAL

Several programs have 2021 budgets that have decreased by 40% or more relative to PG&E's 2020 ABAL, shown in Table 8 below. The first three programs in this table, as noted in the explanation column, are PG&E-implemented and will continue to operate through the duration of 2021 to fill portfolio gaps and support customer needs as the portfolio ramps up new third-party local and statewide programs. These PG&E-implemented programs will eventually close in future program years, which will be signaled in PG&E's 2022 ABAL and/or 2023-2026 Business Plan application to be filed on September 1, 2021.

Table 8: Programs with Budgets Decreased by 40% or More

Program ID	Program Name	% Budget Change from 2020	Driver of Budget Reduction	Explanation
PGE21002	Residential Energy Efficiency	-83%	New local third- party and/or statewide program overlap	Ramping down due to overlap with SW Plug Load and Appliance program (PGE_SW_PLA). Program will operate through the majority of 2021. Future closure for this PG&E-implemented program may be signaled in 2022 ABAL depending on portfolio needs.
PGE21012	Commercial Deemed Incentives	-53%	New local third- party and/or statewide program overlap	Ramping down while fulfilling existing project commitments and gap-filling for new third-party programs. Program will operate through duration of 2021. Future closure for this PG&E-implemented program may be signaled in 2022 ABAL depending on portfolio needs.
PGE21034	Agricultural Energy Advisor	-88%	New local third- party and/or statewide program overlap	The Advanced Pumping Energy Efficiency Program (APEP) component of this subprogram is moving under Integrated Energy Education and Training (PGE21071) to align non-resource program activities. Program will operate through duration of 2021. Future closure for this PG&E-implemented program may be signaled in 2022 ABAL depending on portfolio needs.
PGE21062	Technology Assessments	-53%	New local third- party and/or statewide program overlap	Ramping down due to overlap with SW Emerging Technologies Program (PGE_SW_ETP_Gas) and in anticipation of new SW electric Emerging Technologies program.
PGE21091	On-Bill Financing (excludes Loan Pool)	-77%	Shifting efforts to On-Bill Financing Alternative Pathway (PGE210911)	Transitioning majority of OBF projects (and OBF administration) to the Alternative Pathway model.

Table 9 shows programs with 2021 budgets that increased by 40% or more relative to PG&E's 2020 ABAL. Most of the existing programs in this table show increased budget to cover costs of finishing existing projects and filling in gaps in the portfolio as new programs come on board.

Table 9: Programs with Budgets Increased by 40% or More

Program ID	Program Name	% Budget Change from 2020	Explanation
PGE_3P_Com	Third-Party Placeholder – Local Commercial Programs	+74%	The placeholder budget for new local third-party commercial programs not yet under contract is higher in 2021 than 2020 because these new programs are expected to be under contract by the end of 2020 and launching in 2021. The budget forecasted for 2020 was lower due to solicitations timing, which ultimately was delayed past the date expected for the 2020 ABAL.

PGE_3P_Res	Third-Party Placeholder – Local Residential Programs	+74%	The placeholder budget for new local third-party residential programs not yet under contract is higher in 2021 than 2020 because a new residential behavioral program is expected to be under contract by the end of 2020 and launching in 2021. The budget forecasted for 2020 was lower due to solicitations timing, which ultimately was delayed past the date expected for the 2020
PGE_SW_CSA_App_ PA	State Appliance Standards Advocacy PA Costs	+582%	ABAL. New statewide program ramping up. The 2021 budget reflects additional lead program administrator costs for 2021 (relative to the 2020 ABAL forecast of \$274,930), including engineering services support of C&S advocacy subprograms. (a) Program budget for PGE_SW_CSA_App remains unchanged from 2020 to 2021.
PGE_SW_CSA_Bldg_ PA	State Building Codes Advocacy PA Costs	+241%	New statewide program ramping up. The 2021 budget reflects additional lead program administrator costs for 2021 (relative to the 2020 ABAL forecast of \$441,888), including engineering services support of C&S advocacy subprograms. (a) Program budget for PGE_SW_CSA_Bldg remains unchanged from 2020 to 2021.
PGE_SW_CSA_Natl_ PA	National Codes & Standards Advocacy PA Costs	+90%	New statewide program ramping up. The 2021 budget reflects additional lead program administrator costs for 2021 (relative to the 2020 ABAL forecast of \$331,152), including engineering services support of C&S advocacy subprograms. (a) Program budget for PGE_SW_CSA_Natl remains unchanged from 2020 to 2021.
PGE_SW_NC_Res	SW New Construction Residential	+429%	New statewide program ramping up. Low 2020 budget forecasted in 2020 (\$456k) due to anticipated start in late 2020, however new program launch delayed to 2021.
PGE_SW_NC_Res_PA	SW New Construction Residential PA Costs	+116%	New statewide program ramping up, additional lead PA costs required to support ramp-up.
PGE_Res_001a (b)			Program budget increase reflect funds needed to cover 2021 M&V payments resulting from prioryear projects, and increased participant
PGE_Res_001b (b)	Pay for Performance		enrollment in 2021. Additionally, program activities from Energy Upgrade California
PGE_Res_001c (b)	(CHR, HEA, HER, and ICF) ^(b)	+57%	(PGE21004) and Residential HVAC (PGE21006) have moved under the Pay for Performance-CHR new 2021 Program ID (PGE_Res_001a). See the
PGE_Res_001d (b)			"Program ID Changes Resulting from Program ID Reorganization" section and accompanying Table 11 below for more details.
PGE210212	Compressed Air and Vacuum Optimization Program	+171%	The 171% budget increase reflects an absolute budget increase of approximately \$497k to cover project commitments.
PGE21022	Industrial Deemed Incentives	+65%	Increased budget to finish existing projects and gap-fill for new third-party programs.

PGE21021	Industrial Calculated Incentives	+74%	Increased budget to finish existing projects and gap-fill for new third-party programs.
PGE21031	Agricultural Calculated Incentives	+174%	Increased budget to finish existing projects and gap-fill for new third-party programs.
PGE21063	Technology Introduction Support	+123%	Introducing new program activities for heat pump water heater replacement, including fuel substitution measures. (c)
PGE210911	On-Bill Financing Alternative Pathway	+394%	Transitioning majority of OBF projects (and OBF administration) to the Alternative Pathway model.

(a) PG&E originally forecasted these engineering services costs under the 2020 Code Readiness Program (PGE21056) forecast and not for the 2020 C&S Advocacy program PA costs (PGE_SW_CSA_App_PA, PGE_SW_CSA_Bldg_PA, and PGE_SW_CSA_Natl_PA). For 2021, PG&E has identified a need for these engineering services in the 2021 C&S Advocacy program forecasts instead of Code Readiness, as reflected in the percentage budget changes in this table. (b) PGE_Res_001a, PGE_Res_001b, PGE_Res_001c, and PGE_Res_001d are new Program IDs for the four Pay for Performance implementers of the Pay for Performance program activities for 2021 that were previously forecasted and reported through 2020 under Program ID PGE210010. See the "Program ID Changes Resulting from Program ID Reorganization" section and accompanying Table 12 below for more details. The % budget change for PGE_Res_001a, PGE_Res_001b, PGE_Res_001c, and PGE_Res_001d is based on the total 2021 program budgets for these four new Program IDs compared to the 2020 program budget for Pay for Performance (PGE210010).

(c) Cost recovery for the fuel substitution portion of this program is discussed in Section III.J. of this advice letter.

New Programs Launching in 2021

PG&E is introducing multiple new programs into its 2021 portfolio as a result 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). There is a total of 25 new programs in 2021:

- Eight new local, third-party resource programs;
- Eight new government partnership non-resource programs; and
- Nine new statewide programs.57

These new programs are listed in Table 10 below. Some of these programs will incur expenditures to be reported in 2020 as a result of implementation plan development upon finalization of the new program contracts. Attachment 4, Table 8 of this advice letter details the SW program budgets by IOU for 2021.

While PG&E's 2021 forecast includes fourteen statewide Program IDs in 2021, only nine are listed in Table 10 because the remaining five 2021 SW programs were included in PG&E's 2020 ABAL, and thus are shown in Table 9 for program budget changes relative to 2020. The five SW programs introduced in 2020 and continuing in 2021 are the SW Non-Residential New Construction program (PGE_SW_NC_NonRes), the SW Residential New Construction program (PGE_SW_NC_Res), and the SW Codes and Standards Advocacy programs for Appliance, State Building, and National codes (PGE_SW_CSA_App, PGE_SW_CSA_Bldg, and PGE_SW_CSA_Natl, respectively). Each statewide program also includes a second Program ID in CEDARS to capture PG&E's administrative costs to support the statewide program. These additional Program IDs are not shown in Tables 9 (no significant budget changes relative to 2020) or Table 10.

Table 10: New Local Third-Party, Government Partnership, and Statewide Programs for 2021 Portfolio

Program ID	Program Name	Program Type
PGE_Ag_001	Agriculture Energy Savings Action Plan	Local Third-Party
PGE_Com_001	Grocery Comprehensive Retrofit & Commissioning	Local Third-Party
PGE_Com_002	Smart Labs	Local Third-Party
PGE_Ind_002	Business Energy Performance Program	Local Third-Party
PGE_Ind_003	Industrial Systems Optimization Program	Local Third-Party
PGE_Pub_009	Government & K-12 Comprehensive Program	Local Third-Party
PGE_Pub_010	RAPIDS Wastewater Treatment Optimization Program	Local Third-Party
PGE_Res_003	Multifamily Energy Savings Program	Local Third-Party
PGE_Pub_001	Central Coast Leaders in Energy Action Program	Government Partnership
PGE_Pub_002	Marin Energy Watch Partnership	Government Partnership
PGE_Pub_003	Redwood Coast Energy Watch	Government Partnership
PGE_Pub_004	Central California Energy Watch	Government Partnership
PGE_Pub_005	San Mateo County Energy Watch Program	Government Partnership
PGE_Pub_006	Energy Access SF	Government Partnership
PGE_Pub_007	Sierra Nevada Energy Watch	Government Partnership
PGE_Pub_008	Sonoma Public Energy	Government Partnership
PGE_SW_FS (a)	Food Service POS	Statewide
PGE_SW_UL (a)	Lighting (Upstream)	Statewide
PGE_SW_MCWH (a)	Midstream Comm Water Heating	Statewide
PGE_SW_ETP_Gas (a)	Emerging Technologies Program, Gas	Statewide
PGE_SW_PLA (a)	Plug Load and Appliance	Statewide
PGE_SW_HVAC_Up (a)	Upstream HVAC (Comm + Res)	Statewide
PGE_SW_WET_K12 (a)	WE&T K-12 Connections	Statewide
PGE_SW_WET_WORK (a)	WE&T Career and Workforce Readiness	Statewide
PGE_SW_IP_Gov ^(a)	Institutional Partnerships: Department of General Services and Department of Corrections and Rehabilitation	Statewide

(d) All 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 and Attachment 2 of this advice letter. The PA Cost Program IDs were created to separately track PG&E's PA costs to support the associated statewide program.

Program ID Changes Resulting from Program ID Reorganization

PG&E is deactivating two of its Program IDs on CEDARS as program activities are transferred under existing Program IDs to remove duplicative program offerings between

Programs, as shown in Table 11 below. The program activities under the Program IDs that are being deactivated will not be ceasing, therefore the program activities are not classified as "closed" at this point in time; rather, these program activities will be continuing but consolidated under another existing Program ID to ensure consolidated and coordinated program activities.

Table 11: 2020 Program IDs Deactivated as Program Activities Move to Alternative Existing Program ID

	2020 ABAL	2021 ABAL					
Program ID	Program Name	Program ID Acquiring Program Activities	Program Name Acquiring Program Activities				
PGE21004	Energy Upgrade California		Pay for Performance – Comfortab				
PGE21006	Residential HVAC	PGE_Res_001a	Home Rebates				

As PG&E moves towards a largely outsourced portfolio, it seeks to align the Program IDs in CEDARS with individual program implementers to enable more transparent program performance management for implementers. To this end, PG&E is splitting up three of its 2020 existing Program IDs into multiple Program IDs as shown in Table 12 below. The 2020 Residential Pay for Performance program (historically PGE210010) has been split into four separate Program IDs for its 2021 forecast, for each of its unique residential Pay for Performance implementers. Similarly, PG&E has split up its 2020 Industrial Strategic Energy Management program (historically PGE21030) into two separate Program IDs for its 2021 forecast for each implementer. Lastly, PG&E has split up its 2020 Residential Energy Advisor program into three separate Program IDs for its 2021 forecast for each distinct program offering.

Table 12: 2020 Program IDs Split into Multiple 2021 Program IDs

20	20 ABAL		2021 ABAL			
Program ID	Program Name	Program ID	Program Name			
		PGE_Res_001a	Pay for Performance – Comfortable Home Rebates			
DC E310010	Residential Pay for	PGE_Res_001b	Pay for Performance – Home Intel			
PGE210010	Performance Pilot	PGE_Res_001c	Pay for Performance – Home Energy Rewards			
		PGE_Res_001d	Pay for Performance – Home Energy Optimization			
PGE21030	Industrial Strategic	PGE_Ind_001a	Industrial Strategic Energy Management – Food Processing			
FGE21030	Energy Management	PGE_Ind_001b	Industrial Strategic Energy Management – Manufacturing			
		PGE_Res_002a	Residential Energy Advisor – Home Energy Check-Ups			
PGE21001	Residential Energy Advisor	PGE_Res_002b	Residential Energy Advisor - Marketplace			
		PGE_Res_002c	Residential Energy Advisor – Home Energy Reports			

H. EM&V

PG&E proposes a PG&E EM&V budget of \$9,518,705, consistent with the 4% EM&V budget cap originally adopted in D.09-09-047 and upheld in subsequent EE budget Decisions. D.16-08-019 established grounds to revise the allocation of EM&V fund split between Commission and IOU EM&V efforts, beginning after the EE Business Plans are approved by the Commission, to at least 60% reserved for Commission staff evaluation efforts and up to 40% for PAs. The default allocation is 72.5% of EM&V funds for Commission EM&V efforts and 27.5% for PG&E EM&V efforts. PG&E's 2021 EM&V forecast includes a shift of \$275,000 in estimated costs for eTRM maintenance and administration from the CPUC EM&V portion to PG&E's PA EM&V portion, bringing the EM&V allocation to 69.6% CPUC / 30.4% PG&E PA.60 Table 13 presents the EM&V allocations for PG&E, BayREN, MCE, and 3C-REN using the REN and MCE 2021 budgets presented in their 2021 ABALs.

				J - ·		
PA	Total PA Budget without EM&V	EM&V Total ^(a)	EM&V PA Portion	Total PA Budget with EM&V		
PG&E (c)	\$228,448,930	\$9,518,705	\$6,626,061	\$2,892,644	\$237,967,635	
BayREN (d)	\$23,911,548	\$996,315	\$736,250	\$260,065	\$24,907,863	
MCE (e)	\$7,444,530	\$310,189	\$191,076	\$119,112	\$7,754,719	
3C-REN (f)	\$3,920,942	\$163,373	\$118,445	\$44,927	\$4,084,315	

Table 13: 2021 EM&V Budget

I. Unspent Funds

1. PG&E Prior Years' Unspent Funds

⁽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) Assumes a total PG&E EM&V split of 69.6% CPUC / 30.4% PA. 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 2021, 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 2021 ABAL, Advice 16-E-A.

⁽e) MCE total budget without EM&V and EM&V PA portion taken from MCE 2021 ABAL, Advice 45-E.

⁽f) 3C-REN total budget without EM&V and EM&V PA portion taken from 3C-REN 2021 ABAL, Advice 6-E/5-G. PG&E's portion of 3C-REN's budget is 45.6%. PG&E's share of EM&V coordinated with 3C-REN in advance of the 2021 ABAL filling date.

⁵⁸ D.10-04-029, D.12-05-015, D.14-10-046, D.15-10-028, D.16-08-019.

⁵⁹ D.16-08-019, OP 16.

⁶⁰ Draft 2022 DEER Resolution E-5082, p.10 directs the IOUs to include eTRM administration and maintenance costs in their 2021 ABALs. A joint call with the IOUs and Amy Reardon on April 7, 2020 introduced the plan to leverage EM&V funds for these expenses, and verbal approval was received from Energy Division staff to proceed with this plan and reallocate a share of CPUC EM&V funds to the IOU to cover this eTRM work.

Table 14 illustrates PG&E's unspent funds for prior years' program cycles.⁶¹ These data are also presented in the Appendices on Table 6: Committed Energy Efficiency Program Funding Not Yet Spent, and Table 7: 2020 Authorized and Spent/Unspent Detail. As of June 2020, PG&E estimates that \$10 million of PY2020 funds are unspent and uncommitted. However, the 2021 EE revenue collections will not be offset by 2020 unspent and uncommitted funds as these funds will be allocated to a School Energy Efficiency Stimulus Program in 2021 per AB841 Section 1615(a)(1).

PG&E submitted a Tier 1 Advice Letter 4298-G/5926-E on August 24, 2020 summarizing the remaining balance of unspent and uncommitted funds from Program Year 2019 to be returned at the soonest rate filing opportunity. The Commission's non-standard disposition of PG&E's 2020 ABAL, issued on December 24, 2019, approved the return of an estimated \$13,324,000 in unspent and uncommitted 2019 funds. 62 However, after this disposition was received and 2019 program year expenditures were finalized, PG&E determined there was a remaining balance of \$7,674,475 in 2019 unspent and uncommitted funds to be returned. These remaining funds will be returned at the soonest opportunity; the Tier 1 advice letter is assumed to be effective as of August 24, 2020, the date of the advice letter submission.

Table 14: Prior Years' Unspent Funds as of June 2020

	PY2013- 2015	PY 2016	6 PY 2017 PY 2018 PY 2019		PY 2019	PY 2020 (estimated)	Totals					
Unspent & Committed												
EM&V (a)	\$3,168,896	\$15,672,827	\$14,479,143	\$11,501,157	\$0	\$7,837,885	\$52,659,907					
Financing Pilots (b)	\$123,025	\$0	\$165,400	\$220,797	\$500,000	\$500,000	\$1,509,222					
BayREN	\$3,760,885	\$0	\$42,769	\$5,218,732	\$2,989,987	\$11,161,983	\$23,174,356					
MCE	\$36,182	\$104,615	\$0	\$223,670	-\$56,956	\$5,370,600	\$5,678,111					
3C REN	\$0	\$0	\$0	\$0	\$2,420,453	\$1,890,093	\$4,310,546					
Total	\$7,088,987	\$15,777,442	\$14,687,312	\$17,164,356	\$5,853,483	\$26,760,561	\$87,332,142					
Estimated Unspen	Estimated Unspent & Uncommitted for PY2020											
Utility Program Funds	\$0	\$0	\$0	\$0	\$0	\$10,000,000	\$10,000,000					

⁽a) Includes unspent funds from the CPUC (\$41.7 million) and PG&E (\$11.0 million)

2. PG&E's MCE Sub-Account Prior Years' Unspent Funds

In D.14-10-046, the Commission instructed PG&E to offset MCE's unspent funds against payments to be made to MCE under its authorized electric EE portfolio budget. As of July

⁽b) 2017, 2018, 2019, and 2020 committed funds were authorized in AL 3904-G/5175-E, approved effective December 3, 2017.

⁶¹ Table 8 reflects balances through June 2020.

⁶² Non-standard disposition to Advice 4136-G/5627-E and Advice 4136-G-A/5627-E-A, dated December 20, 2019 and issued on December 24, 2019.

31, 2020, PG&E estimates that all of MCE's 2020 electric funds (authorized in ABAL 37-E) will be paid to MCE by the end of 2020.

J. Cost Recovery

1. EE Budget Cost Recovery

The PG&E energy efficiency budget for 2021 cost recovery purposes upon approval of this advice letter is \$237,967,635,63 which does not include the estimated unspent and uncommitted carryover balance for program year 2020 as discussed in Section III.I.1. PG&E will collect from customers the combined total of PG&E, MCE, BayREN, and 3C-REN's authorized cost recovery budgets. PG&E is not requesting cost recovery budget for RCEA because it is funding RCEA's 2021 program using unspent and uncommitted funds from its 2020 program year budget.⁶⁴

The allocation of the authorized 2021 budget for electric and gas cost recovery will be based on the electric/gas split attributed to the most recent Commission-approved program forecast. If the Commission approves the electric/gas split of 83%/17% associated with the 2021 EE program forecast in this advice letter, PG&E will apply this electric/gas split for 2021 cost recovery purposes. If the Commission does not approve the electric/gas split associated with the 2021 EE program forecast in this advice letter, PG&E will default to its last approved electric/gas split of 70%/30% from the 2020 ABAL. 66

PG&E's electric and gas cost recovery requests reflect direction by D.19-08-009 OP 5 for PG&E to fund fuel substitution measures via ratepayers of the new fuel and not the fuel being substituted. PG&E's Emerging Technologies Subprogram Technology Introduction Support (PGE21063) will, among other program activities, be exploring heat pump water heater fuel substitution measures.⁶⁷ Of the total Technology Introduction Support program budget, PG&E expects approximately \$877,602 to support fuel substitution activities and will ensure this budget is included in the portion of costs recovered via electric rates.

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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). This cost recovery budget includes 2019 benefits burdens assumptions, however the benefits burden amount to be recovered through rates may differ upon approval of the 2020 GRC.

⁶⁴ RCEA 2021 budget recovery request is set at \$0. PG&E transferred funds from its 2020 budget to RCEA for the full 3-year program amount approved via Resolution E-5050, as directed by the Resolution. No further cost recovery for RCEA is required at this time.

⁶⁵ The electric/gas split will be applied to the portion of the 2021 EE portfolio budget not attributed to support fuel-substitution measures as shown in Table 15. The EE portfolio costs to support fuel-substitution program activities will be recovered through electric rates only.

Advice 4136-G/5627-E filed September 3, 2020, and Advice 4136-G-A/5627-E-A, filed November 15, 2019. Non-standard disposition of Advice 4136-G/5627-E and Advice 4136-G-A/5627-E-A dated December 20, 2019 and issued on December 24, 2019.

⁶⁷ See Section III.G. of this advice letter.

Table 15: 2021 Total EE Portfolio Cost Recovery Summary

	Total 2021	Applio	cable	Electric	Gas Portion	
Cost Recovery Component	Cost Recovery	Electric/G	-	Portion for 2021 Cost	for 2021 Cost	
•	Amounť	Electric	Gas	Recovery	Recovery	
PG&E 2021 EE Portfolio Budget (Less Fuel	\$237,090,033	83%	17%	\$196,784,728	\$40,305,306	
Substitution Budget) PG&E 2021 Budget						
Forecasted to Support Fuel Substitution (b)	\$877,602	100%	0%	\$877,602	\$0	
PG&E 2020 Estimated Unspent and Uncommitted Funds for 2021 Offset	\$0	70%	30%	\$0	\$0	
PG&E Pre-2020 Unspent and Uncommitted Funds for 2021 Offset	\$0	varies	varies	\$0	\$0	
PG&E Subtotal	\$237,967,635			\$197,662,330	\$40,305,306	
BayREN 2021 EE Portfolio Budget (including CPUC EM&V)	\$24,907,863	83%	17%	\$20,673,526	\$4,234,337	
BayREN 2020 Estimated Unspent and Uncommitted Funds for 2021 Offset	-\$953,250	70%	30%	-\$667,275	-\$285,975	
BayREN 2019 Unspent and Uncommitted Funds for 2021 Offset ^(c)	-\$966,891	76%	24%	-\$734,837	-\$232,054	
BayREN 2018 Unspent and Uncommitted Funds for 2021 Offset	-\$4,779,888	84%	16%	-\$4,015,106	-\$764,782	
BayREN Subtotal	\$18,207,833			\$15,256,308	\$2,951,526	
MCE 2021 EE Portfolio Budget (including CPUC EM&V)	\$7,754,719	83%	17%	\$6,436,417	\$1,318,302	
MCE 2020 Estimated Unspent and Uncommitted Funds for 2021 Offset (d)	-\$3,785,557	70%	30%	-\$2,649,890	-\$1,135,667	
MCE 2019 Unspent and Uncommitted Funds for 2021 Offset ^(c)	-\$214,443	76%	24%	-\$162,977	-\$51,466	
MCE Subtotal	\$3,754,719			\$3,623,550	\$131,169	
3C-REN 2021 EE Portfolio Budget (including CPUC EM&V)	\$4,084,315	83%	17%	\$3,389,981	\$694,333	
3C-REN 2020 Estimated Unspent and Uncommitted Funds for 2021 Offset	\$0	70%	30%	\$0	\$0	
3C-REN 2019 Unspent and Uncommitted Funds for 2021 Offset ^(c)	-\$769,645	76%	24%	-\$584,930	-\$184,715	
3C-REN Subtotal	\$3,314,670			\$2,805,051	\$509,619	
Grand Total	\$263,244,857			\$219,347,239	\$43,897,619	
					I .	

⁽a) The 2021 electric/gas split is forecasted to be 83%/17%. 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 as part of the Technology Introduction Support program (PGE21063) are discussed in Table 9, Section III.G. of this advice letter.

(c) 2019 unspent and uncommitted funds for 2021 budget recovery offset for BayREN, MCE, and 3C-REN exclude the estimated 2019 unspent and uncommitted funds reported in the 2020 ABALs for 2020 budget recovery offset, as those funds are no longer available for 2021 offset. Only the remaining 2019 unspent and uncommitted funds in excess of the estimated 2019 unspent and uncommitted funds from the 2020 ABALs are included in this total for 2021 budget recovery offset.

(d) The MCE 2020 estimated unspent and uncommitted funds total is equal to the combined total 2019 and 2020 unspent and uncommitted funds for 2021 offset included in MCE's 2021 ABAL (Advice 45-E) Table 1 (\$4,000,000) less the 2019 unspent and uncommitted funds total for 2021 offset included in MCE's 2021 ABAL appendix table 3d filed on CEDARS.

2. 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. 68 In consultation and agreement with the IOUs, PG&E will budget \$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 will total \$9 million.

Table 16: Demand Response IDSM Funding Request in 2021 Rates

Category	PG&E Electric Demand Response Funds ⁶⁹
Energy Efficiency	\$1,000,000
Demand Response	\$8,000,000
Total PG&E	\$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 IDSM budget, \$1 million will be allocated to the EE portion of the IDSM budget, and \$8 million will be allocated to the 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.

⁶⁸ D.18-05-041, OP 10.

⁶⁹ Administrative Law Judge's Ruling Providing Guidance for the 2012-2014 Demand Response Applications, Rulemaking (R.) 07-01-041, August 27, 2010 directed that future authority and funding for the demand response portion of the Integrated Design-Side Management activities be considered in EE proceedings starting with the EE applications for 2013-2015. These funds were approved in D.18-05-041, OP 10.

K. Metrics

Pursuant to D.18-05-041, PG&E reported on sector-level metrics and their associated targets for program years 2017, 2018, and 2019 as part of the 2017, 2018, and 2019 EE Annual Report filings filed on May 1, 2018, May 1, 2019, and May 1, 2020, respectively. They can be found in spreadsheet form on the CPUC's data reporting website, Energy Efficiency Statistics (EEStats),⁷⁰ by filtering documents for the "Annual" Report Category and "Narrative & Spreadsheet" Report Type.

Protests

PG&E asks that the Commission, pursuant to GO 96-B, General Rule 7.5.1, maintain the original protest and comment period designated in Advice 4303-G/5936-E and not reopen the protest period because (a) the changes in this supplemental advice letter do not substantively change PG&E's 2021 EE portfolio spending budget request relative to the spending budget request in its September 1, 2020 filing,⁷¹ and (b) the changes to PG&E's 2021 EE cost recovery request, including the REN and MCE cost recovery budgets, result from alignment with the budgets filed by the RENs and MCE in their 2021 ABALs as well as compliance with AB 841 requirements for the treatment of PG&E's PY2020 unspent and uncommitted funds.⁷²

Effective Date

PG&E requests that the Commission approve the following through a non-standard disposition effective January 1, 2021:

- 1. its 2021 spending budget of \$237,967,635 and its 2021 cost recovery budget of \$237,967,635;
- 2. the forecasted 2021 electric/gas split 83%/17% associated with its 2021 EE program forecast for non-fuel-substitution cost recovery budget allocations effective January 1, 2021, to allow PG&E to recover gas and electric costs in amounts that more appropriately match the new measure potential in 2021;⁷³
- 3. the cost recovery budget amounts for the BayREN, 3C-REN, and MCE shown in Tables 1 and 15 of this advice letter, as these budget recovery requests align with the 2021 ABAL budgets filed by each of these Program Administrators (PAs), and also include CPUC Evaluation Measurement and Verification (EM&V) funding

70 http://eestats.cpuc.ca.gov/Views/Documents.aspx

⁷¹ PG&E's revised 2021 EE spending budget request in this supplemental advice letter is \$237,967,635, which is a 0.1% increase relative to the spending budget request of \$237,724,275 included in PG&E's September 1, 2020 filing.

⁷² See Section III.J.1. for details of PG&E's cost recovery request, including the RENs and MCE, as well as a discussion of the AB 841 requirements regarding the treatment of unspent and uncommitted funds from PY2020.

⁷³ The 2021 ABAL forecasted electric/gas split is 83%/17%, excluding fuel-substitution program budget, compared with the 70%/30% electric/gas split approved in the 2020 ABAL that is the basis of cost recovery budget allocation in 2020.

amounts calculated by PG&E for recovery via PG&E rates but not included in the 2021 ABALs for these PAs;⁷⁴ and

4. the program closures listed in Tables 6 and 7 in Section III.G. of this advice letter.

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, 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/

Erik Jacobson Director, Regulatory Relations

Attachments:

Attachment 1 – California Energy Data and Reporting System (CEDARS) Filing Confirmation

Attachment 2 – Program Changes Table

Attachment 3 - Supplemental Budget Tables

Attachment 4 – Appendices

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

⁷⁴ See Section III.H. for CPUC EM&V calculation details and Section III.J.1. for cost recovery details by PA.





California Public Utilities Commission

ADVICE LETTER



ENERGI UIILIII	OF CALL
MUST BE COMPLETED BY UTI	LITY (Attach additional pages as needed)
Company name/CPUC Utility No.: Pacific Gas ar	nd Electric Company (ID U39M)
Utility type: LEC LEGAS WATER PLC HEAT	Contact Person: Kimberly Loo Phone #: (415)973-4587 E-mail: PGETariffs@pge.com E-mail Disposition Notice to: KELM@pge.com
EXPLANATION OF UTILITY TYPE ELC = Electric GAS = Gas WATER = Water PLC = Pipeline HEAT = Heat WATER = Water	(Date Submitted / Received Stamp by CPUC)
Advice Letter (AL) #: 4303-G-A/5936-E-A	Tier Designation: 2
Decisions 15-10-028 and 18-05-041	y Efficiency Annual Budget Advice Letter in Compliance with
Keywords (choose from CPUC listing): Complian AL Type: Monthly Quarterly Annual Annual	
If AL submitted in compliance with a Commission D.15-10-028 and D.18-05-041	on order, indicate relevant Decision/Resolution #:
Does AL replace a withdrawn or rejected AL? I	f so, identify the prior AL: $_{ m No}$
Summarize differences between the AL and th	e prior withdrawn or rejected AL:
Confidential treatment requested? Yes	✓ No
	nation: vailable to appropriate parties who execute a ontact information to request nondisclosure agreement/
Resolution required? Yes V No	
Requested effective date: $1/1/21$	No. of tariff sheets: $_{ m 0}$
Estimated system annual revenue effect (%): N	I/A
Estimated system average rate effect (%): N/A	1
When rates are affected by AL, include attach (residential, small commercial, large C/I, agricu	nment in AL showing average rate effects on customer classes Ultural, lighting).
Tariff schedules affected: $_{ m N/A}$	
Service affected and changes proposed $^{ ext{1:}}$ $_{ ext{N/A}}$	A
Pending advice letters that revise the same tar	iff sheets: $_{ m N/A}$

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

CPUC, Energy Division Attention: Tariff Unit 505 Van Ness Avenue San Francisco, CA 94102

Email: EDTariffUnit@cpuc.ca.gov

Name: Erik Jacobson, c/o Megan Lawson

Title: Director, Regulatory Relations

Utility Name: Pacific Gas and Electric Company Address: 77 Beale Street, Mail Code B13U

City: San Francisco, CA 94177

State: California Zip: 94177

Telephone (xxx) xxx-xxxx: (415)973-2093 Facsimile (xxx) xxx-xxxx: (415)973-3582

Email: PGETariffs@pge.com

Name:

Title:

Utility Name:

Address:

City:

State: District of Columbia

Zip:

Telephone (xxx) xxx-xxxx: Facsimile (xxx) xxx-xxxx:

Email:

Attachment 1

California Energy Data and Reporting System (CEDARS) Filing Confirmation

PGE Supplemental 2021 ABAL Attachment 1 – CEDARS Filing Receipt

CEDARS FILING SUBMISSION RECEIPT

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

PA: Pacific Gas & Electric (PGE)

Filing Year: 2021

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Advice Letter Number: 4303-G/5936-E

- * Portfolio Filing Summary *
- TRC: 1.9399 - PAC: 6.7879
- TRC (no admin): 2.4717 - PAC (no admin): 27.474
- RIM: 0.6651
- Budget: \$220,967,635.49
- * Programs Included in the 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
- PGE210143: Hospitality Program
- PGE21021: Industrial Calculated Incentives
- PGE210210: Industrial Recommissioning Program
- PGE210212: Compressed Air and Vacuum Optimization Program
- PGE21022: Industrial Deemed Incentives
- PGE21024: Industrial Energy Advisor
- PGE21027: Heavy Industry Energy Efficiency Program
- PGE21031: Agricultural Calculated Incentives
- PGE21032: Agricultural Deemed Incentives
- PGE21034: Agricultural Energy Advisor
- PGE21036: Industrial Refrigeration Performance Plus
- PGE21053: Compliance Improvement
- PGE21054: Reach Codes
- PGE21055: Planning and Coordination

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- PGE21056: Code Readiness
- PGE21062: Technology Assessments
- PGE21063: Technology Introduction Support
- PGE21071: Integrated Energy Education and Training
- PGE21072: Connections
- 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 3P Com: New 3P Placeholder Commercial
- PGE 3P Res: New 3P Placeholder Residential
- PGE_Ag_001: Agriculture Energy Savings Action Plan
- PGE Com 001: Grocery Comprehensive Retrofit and Commissioning
- PGE_Com_002: Smart Labs
- PGE_EMV: Evaluation Measurement and Verification
- PGE_ESA: Energy Savings Assistance
- PGE_ESPI: Energy Savings Performance Index
- 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_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 001d: Pay for Performance Home Energy Optimization
- PGE_Res_002a: Residential Energy Advisor Home Energy Checkups
- PGE Res 002b: Residential Energy Advisor Marketplace
- PGE Res 002c: Residential Energy Advisor Home Energy Reports
- PGE Res 003: Multifamily Energy Savings Program
- PGE SW CSA App: State Appliance Standards Advocacy
- PGE SW CSA App PA: State Appliance Standards Advocacy PA Costs
- PGE_SW_CSA_Bldg: State Building Codes Advocacy

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- 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_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 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: New Construction Non-Residential
- PGE_SW_NC_NonRes_PA: New Construction Non-Residential PGE Costs
- PGE_SW_NC_Res: New Construction Residential
- PGE_SW_NC_Res_PA: New Construction Residential 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

Attachment 2

Program Changes Table

Programs to be closed with the disposition of 2021 ABAL

Program ID	Program Name	Third-Party Implementer or Core	Statewide or Local	PA justification ^(a)	% change	2020 Claimed TRC ^(b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	Year program started (c)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting ^(d)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P contracts' ramp up (d)
PGE21008	Enhance Time Delay Relay	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.44	n/a	\$0	\$872,822	2013	12/2020	n/a
PGE210011	Residential Energy Fitness Program	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.00	n/a	\$0	\$6,529,042	2016	12/2020	n/a
PGE21003	Multifamily Energy Efficiency Program	Core	Local	Will be replaced by incoming 3P program.	n/a	0.52	n/a	\$0	\$4,651,856	2013	12/2020	n/a
PGE21009	Direct Install for Manufactured and Mobile Homes	Third-Party	Local	Closed as a result of portfolio balancing.	n/a	0.46	n/a	\$0	\$813,165	2013	12/2020	n/a
PGE210112	School Energy Efficiency	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.36	n/a	\$0	\$1,292,461	2013	12/2020	n/a
PGE210123	Healthcare Energy Efficiency Program	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.00	n/a	\$0	\$994,021	2013	12/2020	n/a
PGE210135	Water Infrastructure and System Efficiency (WISE)	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.00	n/a	\$0	\$1,301,793	2014	12/2020	n/a
PGE21015	Commercial HVAC	Core	Local	Will be replaced by incoming 3P program.	n/a	0.23	n/a	\$0	\$6,044,854	2013	12/2020	n/a
PGE21018	EnergySmart Grocer Program	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.33	n/a	\$0	\$6,176,529	2013	12/2020	n/a
PGE21026	Energy Efficiency Services for Oil Production	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.00	n/a	\$0	\$927,077	2013	12/2020	n/a
PGE210311	Process Wastewater Treatment Energy Management Program for Ag Food Processing	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.00	n/a	\$0	\$203,931	2013	12/2020	n/a
PGE210312	Dairy and Winery Industry Efficiency Solutions	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.33	n/a	\$0	\$1,421,553	2013	12/2020	n/a
PGE21039	Comprehensive Food Process Audit & Resource Efficiency (CFP)	Third-Party	Local	Will be replaced by incoming 3P program.	n/a	0.00	n/a	\$0	\$2,250,083	2013	12/2020	n/a
PGE2110052	Strategic Energy Resources	Third-Party	Local	Will be replaced by incoming 3P LGP programs.	n/a	n/a	n/a	\$0	\$4,961,247	2013	12/2020	n/a
PGE21061	Technology Development Support	Core	Local	Will be replaced by incoming 3P program.	n/a	n/a	n/a	\$0	\$449,065	2013	12/2020	n/a
PGE21076	Career and Workforce Readiness	Core	Statewide	Will be replaced by new 2021 SW program.	n/a	n/a	n/a	\$0	\$131,789	2019	12/2020	n/a
PGE21041	Primary Lighting	Core	Statewide	Will be replaced by new 2021 SW program.	n/a	n/a	n/a	\$0	\$0	2013	12/2019 ^(e)	n/a
PGE21042	Lighting Innovation	Core	Statewide	Will be replaced by new 2021 SW program.	n/a	n/a	n/a	\$0	\$0	2013	12/2019 ^(e)	n/a
PGE21051	Building Codes Advocacy	Core	Statewide	Will be replaced by new 2021 SW program.	n/a	n/a	n/a	\$0	\$0	2013	12/2020	n/a

Programs to be closed with the disposition of 2021 ABAL

Program ID	Program Name	Third-Party Implementer or Core	Statewide or Local	PA justification ^(a)	% change	2020 Claimed TRC ^(b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	Year program started (c)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting (d)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P contracts' ramp up (d)
PGE21052	Appliance Standards Advocacy	Core	Statewide	Will be replaced by new 2021 SW program.	n/a	n/a	n/a	\$0	\$0	2013	12/2020	n/a
PGE21057	National Codes and Standards Advocacy	Core	Statewide	Will be replaced by new 2021 SW program.	n/a	n/a	n/a	\$0	\$0	2013	12/2020	n/a

⁽a) See advice letter Section III.G, Tables 7 through 12 for more details on program changes justification.

⁽b) 2020 claimed TRC represents reported results through Q1. TRC values are not representative of full-year performance, and are subject to change in future quarters. Any erroneous reporting values will be corrected in future reporting quarters.

⁽c) 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.

⁽d) In some cases the contract end date is unknown at the month level, in which case months are marked "TBD".

⁽e) See advice letter Section III.G., Table 6 for more details.

Programs to be closed upon completion of commitments

Program ID	Program Name	Third-Party Implementer or Core	Statewide or Local	PA justification ^(a)	% chang e	2020 Claime d TRC (b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	Year progra m started (c)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting (d)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P contracts' ramp up (d)
PGE2110051	Local Government Energy Action Resources (LGEAR)	Third-Party	Local	Previous Energy Watch programs, funded through LGEAR, will ramp down and close direct install programs by the end of 2020, but select contracts have been extended into 2021 to gap-fill for incoming third-party programs.	-72%	0.33	0.56	\$3,041,724	\$11,058,317	2013	n/a	9/2021
PGE210210	Industrial Retro-commissioning Program	Third-Party	Local	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap.	4%	0.00	0.53	\$1,487,409	\$1,426,592	2013	n/a	TBD/2021
PGE21036	Industrial Refrigeration Performance Plus	Third-Party	Local	Program has been ramping down since 2019 for closing out project costs, as mentioned in the 2019 and 2020 ABALs and the 2019 Annual Report.	n/a	0.00	0.00	\$25,073	\$0	2013	n/a	TBD/2021
PGE211025	Savings by Design	Core	Local	Finishing existing project pipeline in anticipation of SW replacement program. Program not accepting new applications.	9%	0.67	0.58	\$1,287,816	\$1,178,280	2013	n/a	n/a ^(e)
PGE210143	Hospitality Program	Third-Party	Local	Ramping down in anticipation of new third- party program overlap but continuing in 2021 to support customers during COVID pandemic.	20%	0.46	0.77	\$3,024,456	\$2,529,781	2016	n/a	6/2021
PGE21027	Heavy Industry Energy Efficiency Program	Third-Party	Local	Finishing existing pipeline and ramping down in anticipation of new third-party program overlap.	-66%	0.38	1.20	\$2,730,552	\$8,117,891	2013	n/a	TBD/2021
PGE21092	Third-Party Financing	Core	Local	Contract still in place for management of remaining third-party loan pool, however no 2021 spend expected.	n/a	n/a	n/a	\$0	\$0	2013	n/a	TBD/2021 or TBD/2022
PGE21005	California Residential New Construction	Core	Local	Ramping down in anticipation of SW replacement program overlap.	2%	0.21	0.37	\$3,941,698	\$3,849,277	2013	n/a	TBD/2022
PGE21007	California New Homes Multifamily	Core	Local	Ramping down in anticipation of SW replacement program overlap.	7%	0.91	0.56	\$2,515,018	\$2,347,290	2013	n/a	TBD/2022
PGE2110011	California Community Colleges	Core	Local	Increased budget to finish large existing projects	71%	0.04	0.47	\$1,221,073	\$712,478	2013	n/a	TBD/2022
PGE2110012	University of California/California State University	Core	Local	Increased budget to finish large existing projects	358%	-0.41	0.46	\$1,862,921	\$406,780	2013	n/a	TBD/2022
PGE2110013	State of California	Core	Local	Increased budget to finish large existing projects	23%	0.00	0.78	\$619,000	\$504,005	2013	n/a	TBD/2021
PGE2110014	Department of Corrections and Rehabilitation	Core	Local	Increased budget to finish existing projects.	52%	0.00	1.75	\$798,914	\$527,187	2013	n/a	TBD/2021

Programs to be closed upon completion of commitments

Program ID	Program Name	Third-Party Implementer or Core	Statewide or Local	PA justification ^(a)	% chang e	2020 Claime d TRC (b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	progra m started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting	MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P
						(5)			Ī	(c)	(d)	contracts' ramp up ^(d)

⁽a) See advice letter Section III.G, Tables 7 through 12 for more details on program changes justification.

⁽b) 2020 claimed TRC represents reported results through Q1. TRC values are not representative of full-year performance, and are subject to change in future quarters. Any erroneous reporting values will be corrected in future reporting quarters.

⁽c) 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.

⁽d) In some cases the contract end date is unknown at the month level, in which case months are marked "TBD".

⁽e) The savings by design program is not implemented by a third-party contractor, however the program is expected to ramp-down to completion by the end of 2022.

Programs with reduced budgets (>40% budget decrease), to continue in 2021

Progra m ID	Program Name	Third-Party Implemente r or Core	Statewid e or Local	PA justification ^(a)	% chang e	2020 Claime d TRC (b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	Year progra m started (c)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting (d)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P contracts' ramp up (d)
	Residential Energy			Ramping down due to SW program overlap. Program will operate through the majority of 2021. Future closure for this								
PGE21002	Efficiency	Core	Local	PG&E-implemented program may be signaled in 2022 ABAL.	-83%	0.26	0.41	\$954,279	\$5,549,380	2013	n/a	n/a
	Commercial Deemed			Ramping down while fulfilling existing project commitments and gap-filling for new third-party programs. Program will operate through duration of 2021. Future closure for this								
PGE21012	Incentives	Core	Local	PG&E-implemented program may be signaled in 2022 ABAL.	-53%	1.26	1.21	\$4,144,664	\$8,852,809	2013	n/a	n/a
PGE21034	Agricultural Energy Advisor	Core	Local	The Advanced Pumping Energy Efficiency Program (APEP) component of this subprogram is moving under Integrated Energy Education and Training (PGE21071). Program will operate through duration of 2021. Future closure for this PG&E-implemented program may be signaled in 2022 ABAL.	-88%	0.56	0.00	\$278,773	\$2,326,462	2013	n/a	n/a
FGL21034	AUVISUI	Core	Local	FOOL-III pieriteu program may de signaleu in 2022 ABAL.	-00/0	0.50	0.00	۶۷/٥,//3	72,320,402	2013	li/a	II/a
PGE21062	Technology Assessments	Core	Local	Ramping down due to overlap with SW programs.	-53%	n/a	n/a	\$1,462,258	\$3,120,821	2013	n/a	n/a
	On-Bill Financing			Transitioning majority of OBF projects (and OBF administration) to the Alternative Pathway model								
PGE21091	(Excludes Loan Pool)	Core	Local	(PGE210911).	-77%	0.00	0.00	\$1,163,933	\$4,986,247	2013	n/a	n/a

⁽a) See advice letter Section III.G, Tables 7 through 12 for more details on program changes justification.

⁽b) 2020 claimed TRC represents reported results through Q1. TRC values are not representative of full-year performance, and are subject to change in future quarters. Any erroneous reporting values will be corrected in future reporting quarters.

⁽c) 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.

⁽d) 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 by 40% or more are marked as "n/a" because contracts will be in place at least through the end of 2021.

Programs with enhanced budgets (>40% budget increase)

Program ID	Program Name	Third-Party Implementer or Core	Statewide or Local	PA justification ^(a)	% change	2020 Claimed TRC ^(b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	Year program started (c)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting ^(d)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P contracts' ramp up
PGE_3P_Com	Third-Party Placeholder – Local Commercial Programs	Third-Party	Local	The placeholder budget for new local third-party commercial programs not yet under contract is higher in 2021 than 2020 because these new programs are expected to be under contract by the end of 2020 and launching in 2021. The budget forecasted for 2020 was lower due to solicitations timing, which ultimately was delayed past the date expected for the 2020 ABAL.	74%	n/a	1.45	\$14,301,883	\$8,241,182	2020	n/a	n/a
	Third-Party Placeholder –			The placeholder budget for new local third-party residential programs not yet under contract is higher in 2021 than 2020 because a new residential behavioral program is expected to be under contract by the end of 2020 and launching in 2021. The budget forecasted for 2020 was lower due to solicitations timing, which ultimately was delayed past the date expected for the								
PGE_3P_Res	Local Residential Programs	Third-Party	Local	2020 ABAL.	74%	n/a	1.08	\$12,298,994	\$7,055,634	2020	n/a	n/a
PGE_SW_CSA_App_ PA	State Appliance Standards Advocacy PA Costs	IOU/PA	SW	New statewide program ramping up.	582%	n/a	n/a	\$1,874,473	\$274,930	2020	n/a	n/a
PGE_SW_CSA_Bldg_ PA	State Building Codes Advocacy PA Costs	IOU/PA	SW	New statewide program ramping up.	241%	n/a	n/a	\$1,507,403	\$441,888	2020	n/a	n/a
PGE_SW_CSA_Natl_ PA	National Codes & Standards Advocacy PA Costs	IOU/PA	SW	New statewide program ramping up.	90%	n/a	n/a	\$627,822	\$331,152	2020	n/a	n/a
PGE_SW_NC_Res	SW New Construction Residential	Third-Party	SW	New statewide program ramping up. Low 2020 budget forecasted in 2020 (\$456k) due to anticipated start in late 2020, however new program launch delayed to 2021, resulting in large 2021 increase.	429%	n/a	1.18	\$2,413,152	\$456,000	2020	n/a	n/a
PGE_SW_NC_Res_PA	SW New Construction Residential, PA Costs	IOU/PA	SW	New statewide program ramping up.	116%	n/a	n/a	\$505,023	\$233,532	2020	n/a	n/a
PGE_Res_001a ^(e)	Pay for Performance – Comfortable Home Rebates	Third-Party	Local	Program budget increase reflect funds needed to cover 2021 M&V payments resulting from prior-year projects, and increased participant enrollment in 2021.			0.41	\$3,472,921			n/a	n/a
PGE_Res_001b ^(e)	Pay for Performance – Home Intel	Third-Party	Local	Additionally, program activities from Energy Upgrade California (PGE21004) and Residential HVAC (PGE21006)			0.19	\$665,053			n/a	n/a
PGE_Res_001c ^(e)	Pay for Performance – Home Energy Rewards	Third-Party	Local	have moved under the Pay for Performance-CHR new 2021 Program ID (PGE_Res_001a). See the "Program ID Changes Resulting from Program ID Reorganization" and			0.83	\$756,158			n/a	n/a
PGE_Res_001d ^(e)	Pay for Performance – Home Energy Optimization	Third-Party	Local	accompanying Table 11 of section III.G. of the Advice Letter for more details.	57%	0.00	0.38	\$2,687,371	\$4,835,316	2016	n/a	n/a

Programs with enhanced budgets (>40% budget increase)

Program ID	Program Name	Third-Party Implementer or Core	Statewide or Local	PA justification ^(a)		2020 Claimed TRC ^(b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	Year program started (c)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting ^(d)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P contracts' ramp up
	Compressed Air and Vacuum Optimization			Ramping down in anticipation of SW replacement								
PGE210212	Program	Third-Party	Local	program overlap.	171%	0.00	0.71	\$786,909	\$290,275	2017	n/a	n/a
PGE21022	Industrial Deemed Incentives	Core	Local	Increased budget to finish existing projects and gap-fill for new third-party programs.	65%	2.09	1.19	\$249,264	\$151,294	2013	n/a	n/a
PGE20121	Industrial Calculated Incentives	Core	Local	Increased budget to finish existing projects and gap-fill for new third-party programs.	74%	-6.36	0.71	\$6,905,837	\$3,966,195	2013	n/a	n/a
PGE21031	Agricultural Calculated Incentives	Core	Local	Increased budget to finish existing projects and gap-fill for new third-party programs.	174%	0.00	0.57	\$5,332,820	\$1,947,535	2013	n/a	n/a
	Technology Introduction			Introducing new program activities for heat pump water heater replacement, including fuel substitution								
PGE21063	Support	Core	Local	measures.	123%	n/a	n/a	\$3,327,076	\$1,490,116	2013	n/a	n/a
PGE210911	On-Bill Financing Alternative Pathway	Core	Local	Transitioning majority of OBF projects (and OBF administration) to the Alternative Pathway model.	394%	0.00	1.04	\$3,922,177	\$793,414	2013	n/a	n/a

⁽a) See advice letter Section III.G, Tables 7 through 12 for more details on program changes justification.

⁽b) 2020 claimed TRC represents reported results through Q1. TRC values are not representative of full-year performance, and are subject to change in future quarters. Any erroneous reporting values will be corrected in future reporting quarters.

⁽c) 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.

⁽d) 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 2021.

⁽e) PGE_Res_001a, PGE_Res_001b, PGE_Res_001c, and PGE_Res_001d are new Program ID PGE210010.

See the "Program ID Changes Resulting from Program ID Reorganization" section and accompanying Table 12 below for more details. The % budget change for PGE_Res_001b, PGE_Res_001d is based on the total 2021 program budgets for these four new Program IDs compared to the 2020 program budget for Pay for Performance (PGE210010).

Programs that are new in 2021

Program ID	Program Name	Third-Party Implemente r or Core	Statewid e or Local	PA justification ^(a)	% change	2020 Claimed TRC ^(b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	Year program started ^(c)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting (d)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P contracts' ramp up (d)
PGE_Ag_001	Agriculture Energy Savings Action Plan	Third-Party	Local	Local solicitations	n/a	n/a	1.39	\$5,747,864	\$0	TBD/2021	n/a	n/a
PGE_Com_001	Grocery Comprehensive Retrofit & Commissioning	Third-Party	Local	Local solicitations	n/a	n/a	0.94	\$919,475	\$0	TBD/2021	n/a	n/a
PGE_Com_002	Smart Labs	Third-Party	Local	Local solicitations	n/a	n/a	0.00	\$732,473	\$0	TBD/2021	n/a	n/a
PGE_Ind_002	Business Energy Performance Program	Third-Party	Local	Local solicitations	n/a	n/a	1.30	\$5,935,884	\$0	TBD/2021	n/a	n/a
PGE_Ind_003	Industrial Systems Optimization Program	Third-Party	Local	Local solicitations	n/a	n/a	0.90	\$4,715,582	\$0	TBD/2021	n/a	n/a
PGE_Pub_009	Government & K-12 Comprehensive Program	Third-Party	Local	Local solicitations	n/a	n/a	1.27	\$3,231,803	\$0	TBD/2021	n/a	n/a
PGE_Pub_010	RAPIDS Wastewater Treatment Optimization Program	Third-Party	Local	Local solicitations	n/a	n/a	0.24	\$630,065	\$0	TBD/2021	n/a	n/a
PGE_Res_003	Multifamily Energy Savings Program	Third-Party	Local	Local solicitations	n/a	n/a	1.09	\$4,180,340	\$0	TBD/2021	n/a	n/a
PGE_Pub_001	Central Coast Leaders in Energy Action Program	Third-Party	Local	Local solicitations	n/a	n/a	n/a	\$346,844	\$0	TBD/2021	n/a	n/a
PGE_Pub_002	Marin Energy Watch Partnership	Third-Party	Local	Local solicitations	n/a	n/a	n/a	\$278,311	\$0	TBD/2021	n/a	n/a
PGE_Pub_003	Redwood Coast Energy Watch	Third-Party	Local	Local solicitations	n/a	n/a	n/a	\$375,390	\$0	TBD/2021	n/a	n/a
PGE_Pub_004	Central California Energy Watch	Third-Party	Local	Local solicitations	n/a	n/a	n/a	\$801,965	\$0	TBD/2021	n/a	n/a
PGE_Pub_005	San Mateo County Energy Watch Program	Third-Party	Local	Local solicitations	n/a	n/a	n/a	\$449,257	\$0	TBD/2021	n/a	n/a
PGE_Pub_006	Energy Access SF	Third-Party	Local	Local solicitations	n/a	n/a	n/a	\$1,006,037	\$0	TBD/2021	n/a	n/a
PGE_Pub_007	Sierra Nevada Energy Watch	Third-Party	Local	Local solicitations	n/a	n/a	n/a	\$747,981	\$0	TBD/2021	n/a	n/a
PGE_Pub_008	Sonoma Public Energy	Third-Party	Local	Local solicitations	n/a	n/a	n/a	\$397,072	\$0	TBD/2021	n/a	n/a
PGE_SW_FS	Food Service POS	Third-Party	SW	Statewide solicitations	n/a	n/a	1.35	\$5,637,634	\$0	TBD/2021	n/a	n/a

Programs that are new in 2021

Program ID	Program Name	Third-Party Implemente r or Core	Statewid e or Local	PA justification ^(a)	% change	2020 Claimed TRC ^(b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	Year program started ^(c)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting (d)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P contracts' ramp up (d)
PGE_SW_FS_PA	Food Service POS PA Costs	IOU/PA	SW	PA costs to support statewide program	n/a	n/a	n/a	\$531,703	\$0	TBD/2021	n/a	n/a
PGE_SW_UL	Lighting (Upstream)	Third-Party	SW	Statewide solicitations	n/a	n/a	1.07	\$3,324,672	\$0	TBD/2021	n/a	n/a
PGE_SW_UL_PA	Lighting (Upstream) PA Costs	IOU/PA	SW	PA costs to support statewide program	n/a	n/a	n/a	\$180,830	\$0	TBD/2021	n/a	n/a
PGE_SW_MCWH	Midstream Comm Water Heating	Third-Party	SW	Statewide solicitations	n/a	n/a	2.91	\$5,968,545	\$0	TBD/2021	n/a	n/a
PGE_SW_MCWH_PA	Midstream Comm Water Heating PA Costs	IOU/PA	SW	PA costs to support statewide program	n/a	n/a	n/a	\$498,064	\$0	TBD/2021	n/a	n/a
PGE_SW_ETP_Gas	Emerging Technologies Program, Gas	Third-Party	SW	Statewide solicitations	n/a	n/a	n/a	\$882,000	\$0	TBD/2021	n/a	n/a
PGE_SW_ETP_Gas_ PA	Emerging Technologies Program, Gas PA Costs	IOU/PA	SW	PA costs to support statewide program	n/a	n/a	n/a	\$25,675	\$0	TBD/2021	n/a	n/a
PGE_SW_PLA	Plug Load and Appliance	Third-Party	SW	Statewide solicitations	n/a	n/a	0.98	\$3,306,000	\$0	TBD/2021	n/a	n/a
PGE_SW_PLA_PA	Plug Load and Appliance PA Costs	IOU/PA	SW	PA costs to support statewide program	n/a	n/a	n/a	\$171,541	\$0	TBD/2021	n/a	n/a
PGE_SW_HVAC_Up	Upstream HVAC (Comm + Res)	Third-Party	SW	Statewide solicitations	n/a	n/a	1.42	\$4,715,920	\$0	TBD/2021	n/a	n/a
PGE_SW_HVAC_Up_ PA	Upstream HVAC (Comm + Res) PA Costs	IOU/PA	SW	PA costs to support statewide program	n/a	n/a	n/a	\$369,930	\$0	TBD/2021	n/a	n/a
PGE_SW_WET_CC	WE&T Career Connections	Third-Party	SW	Statewide solicitations	n/a	n/a	n/a	\$266,000	\$0	TBD/2021	n/a	n/a
PGE_SW_WET_CC_ PA	WE&T Career Connections PA Costs	IOU/PA	SW	PA costs to support statewide program	n/a	n/a	n/a	\$107,343	\$0	TBD/2021	n/a	n/a
PGE_SW_WET_WOR	WEAT Career Connections FA Costs	100/FA	300	ra costs to support statewide program	i i i i	II/a	ii/a	7107,545	Ş0 -	180/2021	11/ a	11/ a
K	WE&T Career and Workforce Readiness	Third-Party	SW	Statewide solicitations	n/a	n/a	n/a	\$561,943	\$0	TBD/2021	n/a	n/a
PGE_SW_WET_WOR K_PA	WE&T Career and Workforce Readiness PA Costs	IOU/PA	SW	PA costs to support statewide program	n/a	n/a	n/a	\$141,724	\$0	TBD/2021	n/a	n/a
PGE_SW_IP_Gov	Institutional Partnerships: Department of General Services and Department of Corrections and Rehabilitation	Third-Party	SW	Statewide solicitations	n/a	n/a	0.00	\$190,000	\$0	TBD/2021	n/a	n/a
PGE_SW_IP_Gov_PA	Institutional Partnerships: Department of General Services and Department of Corrections and Rehabilitation PA Costs	IOU/PA	SW	PA costs to support statewide program	n/a	n/a	n/a	\$66,917	\$0	TBD/2021	n/a	n/a

⁽a) See advice letter Section III.G, Tables 7 through 12 for more details on program changes justification.

Programs that are new in 2021

Program ID	Program Name	Third-Party Implemente r or Core	Statewid e or Local	PA justification ^(a)	% change	2020 Claimed TRC ^(b)	2021 Filed TRC	2021 ABAL Budget	2020 ABAL Budget	Year program started ^(c)	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2021 ABAL planning and new 3P contracting (d)	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2021 ABAL planning and timing for new 3P contracts' ramp up (d)
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⁽b) 2020 claimed TRC represents reported results through Q1. TRC values are not representative of full-year performance, and are subject to change in future quarters. Any erroneous reporting values will be corrected in future reporting quarters.

⁽c) 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.

⁽d) 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 by 40% or more are marked as "n/a" because contracts will be in place at least through the end of 2021.

Attachment 3

Supplemental Budget Tables

PG&E Supplemental 2021 ABAL Attachment 3 – 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) 2021 Annual Budget Advice Letter filings. The three parties agreed on a template to be submitted with each PA's 2021 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 2021 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 3 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 3 for Supplemental Budget Information.

3. Staffing needs by department/organization, including current and forecast for 2021, as well as a description of what changes are expected in the near term (2022-23) or why it is impossible to predict beyond 2021, if that is the Program Administrator's position.

PG&E's staffing for 2019 and 2021 forecast are provided in the "Portfolio Headcount (FTE)" table in Appendix I.C. PG&E cannot currently predict EE staffing needs by department/organization beyond 2021 because staffing needs are contingent upon the outcome of statewide and third-party program solicitations and ongoing portfolio balancing activities. PG&E will continue to identify opportunities to reduce labor costs over time.

Therefore, PG&E forecasted some reductions in 2021 in anticipation of these changes but is not able to predict beyond 2021 until PG&E knows the result of portfolio balancing and the level of PA support needed by new implementers. For example, if implementers opt-in to additional Informational Technology (IT), Marketing, or Sales team support, PG&E's costs in these functions could increase. As PG&E heads into 2021 with more information, PG&E can provide an update to our 2022 ABAL forecasts.

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 (2022-2023) or why it's impossible to predict beyond 2021, 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 3 for Supplemental Budget Information.

6. Explanation of method for forecasting costs.

PG&E's 2021 ABAL was forecasted using forecasting inputs for new local third-party programs, new statewide programs, and continuing existing programs. Forecast data for its new local third-party programs were based on inputs submitted by the third parties that were awarded contracts through PG&E's solicitations. In cases where commercial and residential sector new third-party program contracts are still pending, PG&E included placeholder forecasts. For new statewide programs in PG&E's forecast in which PG&E is the lead PA, PG&E developed the forecasts. For new statewide programs led by another PA, PG&E used forecast data provided by the lead PA.

Forecast staffing levels reflect anticipated reductions due to PG&E's continued focus on driving out labor costs by finding efficiencies in PG&E's program delivery activities. Actual costs may vary depending on the result of portfolio balancing and the level of PA support needed by PG&E's new implementers.

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 3 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 3 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 2017 general rate case (GRC).

Cost Driver	2019 Expenditures	2021 Forecast	Difference
Program Design and Delivery	\$255.4	\$195.8	-\$59.6
Program Fulfillment	\$2.8	\$2.1	-\$0.7
Operations Support	\$14.3	\$13.5	-\$0.8
Total*	\$272.5	\$211.4	-\$61.1

^{*}This is the Total Sector Budget, which excludes EM&V, DSM, On Bill Financing (OBF) Loan Pool, Bay Area Regional Network (BayREN), Marin Clean Energy (MCE), and Tri-County Regional Network (3C-REN).

Program Design and Delivery – overall decrease in cost primarily associated with the following drivers:

- Existing program ramp-down in anticipation of new programs.
- Addition of third-party and statewide contracts.
- Decrease in staffing due to operational efficiencies.

Program Fulfillment – Overall decrease in staffing costs due to fewer custom projects for inspections and fewer rebates being processed.

Operations Support —Primarily driven by lower IT O&M costs and reduction in discretionary IT project spend. Absorbing costs for additional Policy, Strategy and Regulatory Reporting Compliance activity within the EE proceeding since 2019, including working towards statewide and outsourcing portfolio compliance targets, NMEC policy and reporting, potential and goals analysis and related filings, revised Business Plan development, continued ABAL filings, market transformation framework participation, among other activities.

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., Energy Upgrade California (EUC) Home Upgrade, 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, Governmental Partnerships)

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 Energy Upgrade California 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. <u>Describe the method used to determine the proportion charged to EE balancing</u> accounts for all employees who also do non-EE work.

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

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

PG&E identifies the following functions:

- Account Management / Sales
- Engineering Services support (Applied Technical Services Organization)
- EM&V
- Call Centers
- Marketing, Education and Outreach (ME&O)
- Inspections
- Information Technology (IT and System Administration)
- Program Management support (Sourcing Organization)
- Portfolio Analytics
- Policy, Strategy, and Regulatory Reporting Compliance support (Business Finance Organization, Financial Reporting & Governance)
- 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. <u>Identify the EE O&M costs that are most likely to be spread to non-EE functions as well as EE, if any</u>

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

II. BUDGET TABLES INCLUDING INFORMATION IDENTIFIED INTHE SCOPING MEMO¹

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 3 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 (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

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

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 3 for Supplemental Budget Information. For PG&E's budgets for Statewide Programs, please refer to the Statewide Budget Table in Table 8 of Attachment 4 of PG&E's Supplemental 2021 ABAL.

PG&E Supplemental 2021 ABAL Attachment 3: Supplemental Budget Information

LIST OF ATTACHMENT 2 APPENDICES

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	Public Sector Budget Detail
	Cross-Cutting Budget Detail.
II.A.	Question C-8:
	Portfolio Summary
II.C.	Question C-10:
	Aggregate Budgets for Statewide Programs
	EE Programs Solicitation Strategy

Appendix I.A1.

Narrative Description – Functions Conducted by Each Department/Organization

Codes and Standards (C&S) & Cross Cutting: C&S works with local, state, and federal authorities to develop and substantiate new building codes and appliance standards. C&S also supports compliance improvement through development and delivery of education, training, and tools. Major functions and areas of responsibility include Building Energy Codes Advocacy, Appliance Standards, Reach Codes and Planning/Coordination. This team also manages the new construction programs.

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: This team oversees the implementation of a business strategy to transition at least 60% of the EE budget to fund EE programs proposed, designed, implemented and delivered by third party vendors and at least 25% of EE budget to fund statewide programs by 2022.

EE Quality Control and Communications (QC&C): The EE QC&C team includes the Deemed Platform Quality Control (DPQC) team, and the Custom Implementation Team (CIT),. 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 and manages the CPUC's Custom Project Review process for calculated projects. 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.

Field Engineering Services: The Field Engineering Services team supports implementation and technical review of our calculated energy efficiency programs through on-site auditing services, calculation assistance, and technical support for our sales and service staff.

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, Analytics & Compliance: This team provides strong and sound policy direction and leadership to EE Programs to empower them with the knowledge and tools they need to drive business objectives, achieve EE savings goals, and demonstrate strength in program administration. It also provides direction for future EE portfolio administration. Addresses long-term EE strategic issues and related regulatory and legislative policy issues that arise at state and national levels. Aims to Influence long term policy to advance PG&E's EE goals and ensure PG&E's leadership in EE is well represented in key markets.

Portfolio Strategy & Optimization: This team focuses on proactively planning for and overseeing the strategy and health of the EE portfolio

Residential and Partnership Programs: This team designs, manages and delivers programs that engage and support residential customers. In addition, this team also manages local and regional partnerships covering nearly every city and county in PG&E's service territory as well as supports four statewide joint-Investor Owned Utilities (IOU) institutional partnerships. The team serves as the Public Sector lead for the EE Portfolio overseeing the strategy and programs that serve cities, counties, public schools, special districts, higher education institutions and state government organizations.

Organizations Outside EE that Support EE Activities

Application Management: Application Management includes Enrollment & Incentive Management (E&IM). E&IM manages vendor contract with Parago, PG&E's partner for residential rebate fulfillment services; 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: The BDCE Performance Reporting & Analysis team supports 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 (CIX): 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.

EE Evaluation, Measurement, and Verification (EM&V): conducts EE market and program evaluations for the purposes of program improvement, and to inform long-term program and policy planning. The team works to ensure that CPUC EM&V study methods and implementation provide results and savings values that are reasonable, reliable, actionable and accurate. In addition, the team provides support for development of EE goals and potential, long-term EE savings forecasts, and cost-effectiveness calculations.

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.

Financial Reporting & Governance (FR&G): In collaboration with Business Finance, FR&G 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. FR&G also leads supplier diversity activities for Customer Care.

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 high quality advice, counsel, and representation of the Company. It provides actionable feedback to the lines of business in order 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.

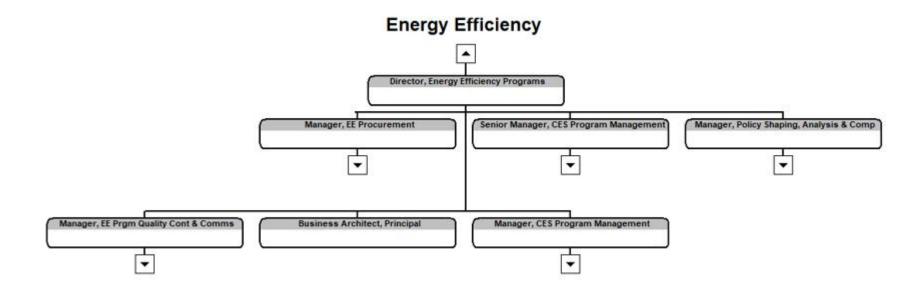
Call Center: PG&E operates 5 call centers throughout its service territory to respond to customer inquiries.

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.

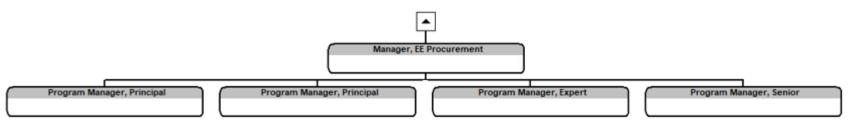
Solutions Marketing: Solutions Marketing collaborates with various CES groups to produce marketing campaigns and collateral and provide marketing support to deliver on its vision of elevating the importance of energy management to PG&E customers by offering them unique and simple solutions.

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.

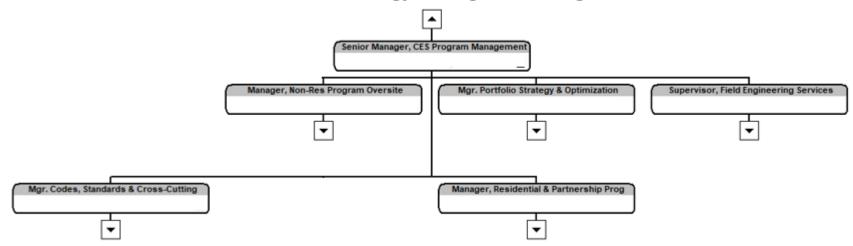
Appendix I.A.2. PG&E's Energy Efficiency Department Organizational Charts as of August 3, 2020



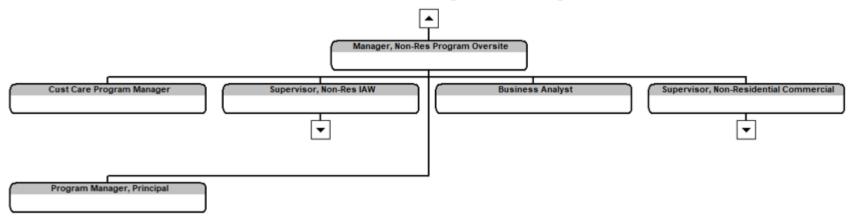
EE Procurement



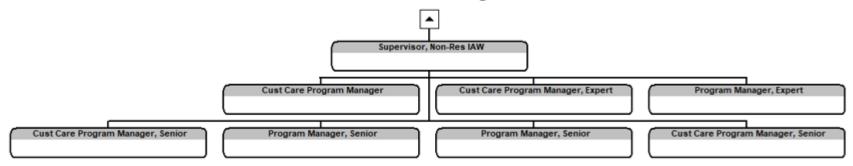
Portfolio Strategy & Program Oversight



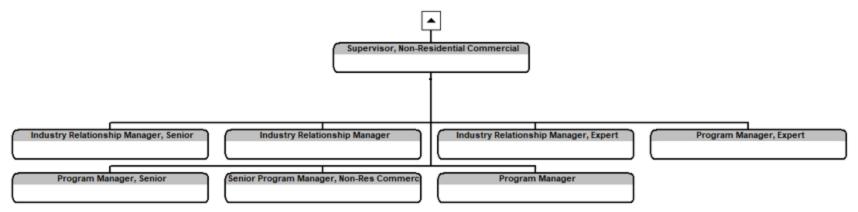
Non-Residential Program Oversight



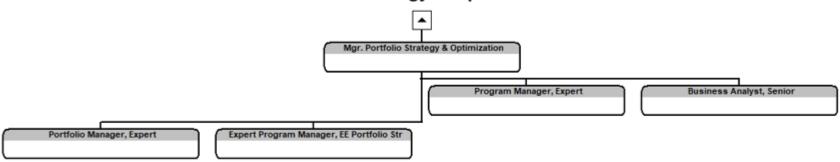
Non-Res IAW Programs



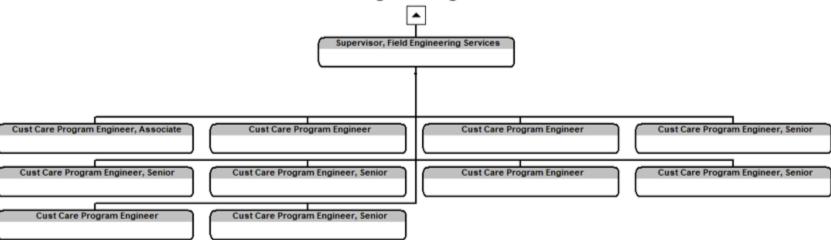
Non-Residential Commercal



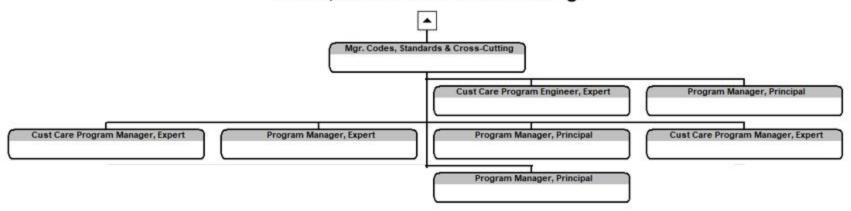
Portfolio Strategy & Optimization



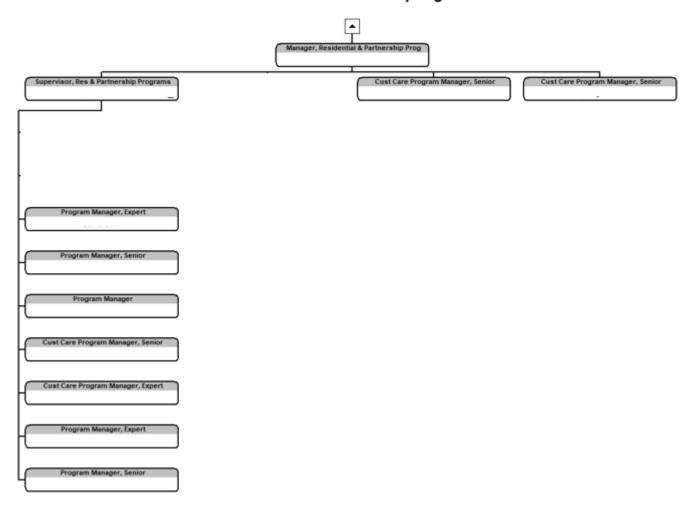
Field Engineering Services



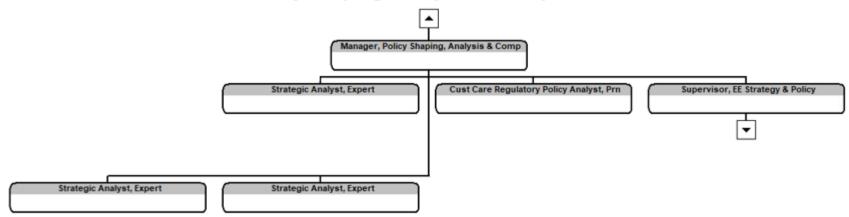
Codes, Standards & Cross-Cutting



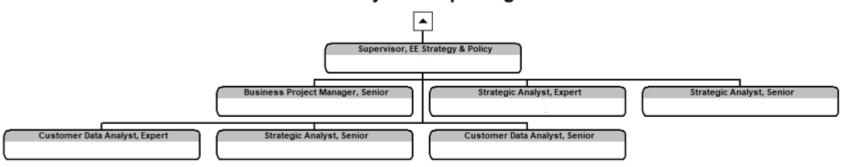
Residential & Partnership Prgms



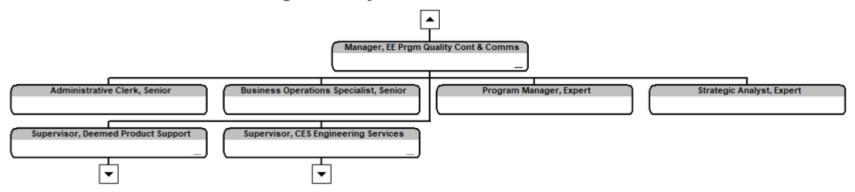
Policy Shaping, Analytics & Compliance



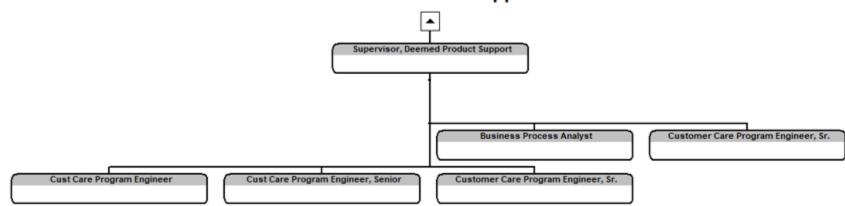
Policy and Reporting



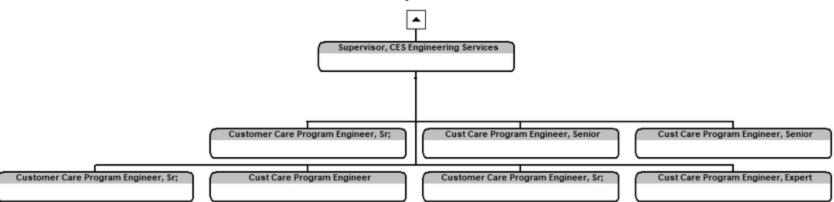
EE Prgm Quality Control & Communications



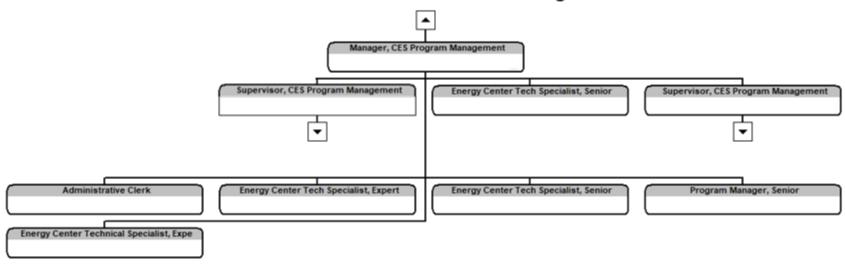
Deemed Product Support



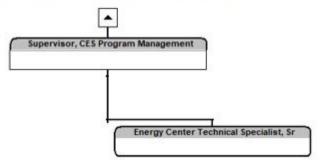
Custom Implementation



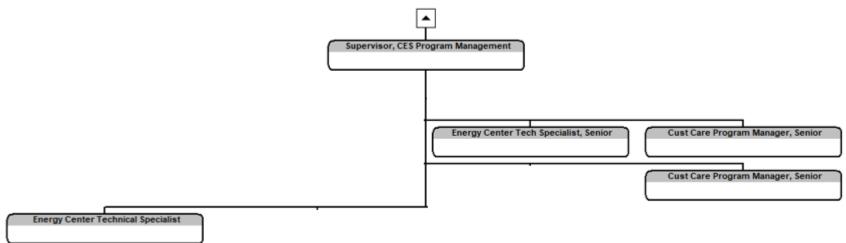
Workforce Education & Training



Energy Centers, Commercial



Energy Centers, Residential



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
- EM&V
- System Administration
- Financial Reporting & Governance
- 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	2019 EE Expenditures (\$Million)	2021 EE Budget (\$Million)	Difference	Drivers
PG&E Portfolio including EM&V and DSM, excluding OBF Loan Pool	Labor (1)	Policy, Strategy, and Regulatory Reporting Compliance	\$3.9	\$3.9	\$0.0	Absorbing costs for additional activity within the EE proceeding since 2019, including working towards statewide and outsourcing portfolio compliance targets, NMEC policy and reporting, potential and goals analysis and related filings, revised Business Plan development, continued ABAL filings, market transformation framework participation, among other activities.
		Program Management	\$13.7	\$12.3	-\$1.4	Reduction in PM staffing as more of the Portfolio transitions to 3rd party implemented programs.
		Engineering services	\$6.4	\$6.6	\$0.2	Plan to transition down consultant work and bring it back in house, as well as scale with lower demand for custom work.
		Customer Application/Rebate/Incentive Processing	\$1.9	\$1.4	-\$0.5	Reduction in rebate processing as volume is lower.
		Customer Project Inspections	\$0.7	\$0.6	-\$0.2	Decreased volume in project inspections.
		Portfolio Analytics	\$1.2	\$1.0	-\$0.2	Small decrease due to efficiencies in analytical processes.
		ME&O (Local)	\$2.4	\$2.4	\$0.0	Immaterial.
		Account Management / Sales	\$9.2	\$8.7	-\$0.5	Reduction in account management staffing due to lower volume in PG&E-led core programs and overall decrease in EE projects in the Non-Residential sectors (Commercial, Industrial, Agriculture, Public)
		IT	\$4.5	\$3.6	-\$0.9	Decrease due to lower O&M costs and reduction in discretionary project spend.
		Call Center	\$0.4	\$0.4	\$0.0	Immaterial.
		EM&V	\$1.2	\$1.1	-\$0.1	Immaterial.
	Labor Total		\$45.6	\$42.1	-\$3.5	Reduction includes absorbing two years of annual inflation.

Sector	Cost Element	Functional Group	2019 EE Expenditures (\$Million)	2021 EE Budget (\$Million)	Difference	Drivers
	Non-Labor	Third-Party Implementer Contracts (as defined per D.16-08-019, OP 10)	\$15.1	\$63.3	\$48.2	N/A as these are outsourced costs and the question asks for drivers of in-house costs.
		Local/Government Partnerships Contracts (3)	\$11.6	\$0.0	-\$11.6	N/A as these are outsourced costs and the question asks for drivers of in-house costs. Note: Local/Government Partnerships Contracts have been re-contracted and are now included as Third-Party Implementer Contracts.
		Other Contracts				
		Program Implementation	\$70.0	\$31.8	-\$38.2	Reduced existing programs' contracts spend to make room for new third-party and statewide contracts.
		Policy, Strategy, and Regulatory Reporting Compliance	\$0.8	\$1.2	\$0.4	CAEECC and other ad hoc regulatory support contracts (e.g. Potential and Goals).
		Program Management	\$2.7	\$2.2	-\$0.4	Reduction in contractors supporting program management.
		Engineering services	\$6.8	\$4.7	-\$2.1	Plan to transition down consultant work and bring it back in house, as well as scale with lower demand for custom work.
		Customer Application/Rebate/Incentive Processing	\$0.2	\$0.2	\$0.0	Immaterial.
		Customer Project Inspections	\$0.0	\$0.0	\$0.0	Immaterial.
		Portfolio Analytics	\$0.0	\$0.0	\$0.0	Immaterial.
		ME&O (Local)	\$5.9	\$4.7	-\$1.2	Reduction in Marketing costs as Portfolio transitions to third-party implemented and implementers take on more of the marketing efforts of their respective programs.
		Account Management / Sales	\$0.2	\$0.2	\$0.0	Immaterial.
		IT	\$4.7	\$4.3	-\$0.4	Decrease due to lower O&M costs and reduction in discretionary project spend.
		Call Center	\$0.0	\$0.0	\$0.0	Immaterial.
		EM&V	\$13.2	\$8.4	-\$4.8	EM&V budgets are set at 4% and spend typically occurs in future years.
		Facilities				Included in Labor.

Sector	Cost Element	Functional Group	2019 EE Expenditures (\$Million)	2021 EE Budget (\$Million)	Difference	Drivers
		Incentives(PA-Implemented and Other Contracts Program Implementation) Programs	\$100.8	\$26.6	-\$74.2	Reduced existing programs' contracts & incentives spend to make room for new third-party and statewide contracts.
		IncentivesThird Party Program (as defined per D.16-08-019, OP 10)	\$9.6	\$31.4	\$21.8	N/A as these are outsourced costs and the question asks for drivers of in-house costs.
	Non-Labor Total		\$241.4	\$178,9	-\$62.5	
Total			\$287.0	\$221.0	-\$66.0	
	Other (collected through GRC) (2)	Labor Overheads	\$6.4	\$6.0	-\$0.4	2021 benefits burden amount represents estimated 2021 benefit burden expenditures. This estimate is calculated based on 2019 expenditures, reduction in 2021 FTEs forecast from 2019 FTEs, and 3% forecast inflation. The actual amount may differ based on the Benefit Burden decision rendered in the GRC proceeding.

- 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.17-05-013) Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2017-2019, issue date of May 11, 2017. The 2020-2022 GRC Decision is still pending at the time of this filling.

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

Functional Group	2019 EE Portfolio FTE	2021 EE Portfolio FTE
Policy, Strategy, and Regulatory Reporting Compliance	35.1	33.1
Program Management	68.4	57.7
Engineering Services	38.6	37.6
Customer Application/Rebate/Incentive Processing	22.8	15.6
Customer Project Inspections	5.4	3.9
Portfolio Analytics	7.1	5.6
EM&V	7.0	6.1
ME&O	11.1	10.6
Account Management / Sales	63.6	56.7
IT	41.2	31.2
Call Center	1.6	1.7
Total	301.8	259.7

^{(1) 2021} FTEs were calculated based on the change in labor costs between 2019 and 2021 (adjusted for a 3% escalation/year) and applying that change to 2019 FTEs.

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 p olicy, 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 & 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
Program management	Includes labor, contracts, admin costs for program design, program implementation, product and channel management for all sectors	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	access process programme, macross and macr
		Contract Management	Budget forecasting, spend tracking, invoice processing, and contract management with vendors and suppliers; Regulatory support for ME&O activities
	Includes engineering, project management, and contracts associated with	Custom project support	Management of Emerging Products projects; Customized reviews; LCR/RFO support; Ex-
Engineering Services	workpaper development and pre/post sales project	Deemed workpapers	ante review management; Technical policy support; Technical assessments; Workpapers; Tool development; End use subject matter expertise
	technical reviews and design assistance	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 Studies	Program and product review; manage evaluation studies
EM&V	EM&V expenditures	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	Marketing	Customer Programs, Products, and Services Marketing; Digital Product Development; Digital Content & Optimization
MEQU	EE marketing; no statewide; focus on outsourced portion	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 - project specific	Projects and minor enhancements. Includes project management/business integration
IT	IT project specific costs and regular O&M	IT – regular operations & maintenance	("PMO/BID"). Excluded: maintenance (which SCE defines as when something goes down, normal batch processing, verifying interfaces, etc.).
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	2019 EE Portfolio Expenditures (\$Million)	2021 EE Portfolio Budget (\$Million)
Residential	Labor (1)	Policy, Strategy, and Regulatory Reporting Compliance	\$1.6	\$1.0
		Program Management	\$2.7	\$2.3
		Engineering services	\$0.5	\$0.3
		Customer Application/Rebate/Incentive Processing	\$0.4	\$0.2
		Customer Project Inspections	\$0.3	\$0.1
		Portfolio Analytics	\$0.4	\$0.3
		ME&O (Local)	\$0.8	\$1.0
		Account Management / Sales	\$0.0	\$0.0
		IT	\$1.3	\$1.2
		Call Center	\$0.4	\$0.1
	Labor Total		\$8.4	\$6.3
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$1.7	\$26.8
		Local/Government Partnerships Contracts	\$0.0	\$0.0
		Other Contracts		
		Program Implementation	\$15.1	\$1.9
		Policy, Strategy, and Regulatory Reporting Compliance	\$0.2	\$0.3
		Program Management	\$0.8	\$0.5
		Engineering services	\$0.6	\$0.2
		Customer Application/Rebate/Incentive Processing	\$0.1	\$0.0
		Customer Project Inspections	\$0.0	\$0.0
		Portfolio Analytics	\$0.0	\$0.0
		ME&O (Local)	\$2.1	\$2.2
		Account Management / Sales	\$0.0	\$0.0
		IT	\$1.6	\$1.3
		Call Center	\$0.0	\$0.0
		Facilities	\$0.0	\$0.0
		Incentives(PA-implemented and Other Contracts Program Implementation) Programs	\$48.5	\$4.8
		IncentivesThird Party Program (as defined per D.16-08-019, OP 10)	\$10.0	\$5.5
	Non-Labor Total	\$80.7	\$43.6	
Residential To			\$89.1	\$50.0
	Other (litigated through GRC) (2)	Labor Overheads	\$1.2	\$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.17-05-013) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2017-2019, issue date of May 11, 2017. The 2020-2022 GRC Decision is still pending at the time of this filling.

Sector	Cost Element	Functional Group	2019 EE Portfolio Expenditures (\$Million)	2021 EE Portfolio Budget (\$Million)
Commercial	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	\$0.7	\$0.7
		Program Management	\$2.4	\$2.2
		Engineering services	\$2.4	\$1.9
		Customer Application/Rebate/Incentive Processing	\$0.5	\$0.2
		Customer Project Inspections	\$0.4	\$0.3
		Portfolio Analytics	\$0.3	\$0.2
		ME&O (Local)	\$1.2	\$0.8
		Account Management / Sales	\$3.3	\$2.1
		IT	\$1.1	\$0.6
		Call Center	\$0.0	\$0.1
	Labor Total		\$12.2	\$9.0
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$0.3	\$15.9
		Local/Government Partnerships Contracts (3)	\$0.0	\$0.0
		Other Contracts		
		Program Implementation	\$19.3	\$1.0
		Policy, Strategy, and Regulatory Reporting Compliance	\$0.2	\$0.2
		Program Management	\$0.5	\$0.4
		Engineering services	\$2.6	\$1.6
		Customer Application/Rebate/Incentive Processing	\$0.0	\$0.0
		Customer Project Inspections	\$0.0	\$0.0
		Portfolio Analytics	\$0.0	\$0.0
		ME&O (Local)	\$2.3	\$1.1
		Account Management / Sales	\$0.1	\$0.0
		IT	\$1.2	\$0.7
		Call Center	\$0.0	\$0.0
		Facilities	\$0.0	\$0.0
		Incentives(PA-implemented and Other Contracts Program Implementation) Programs	\$28.6	\$6.5
		IncentivesThird Party Program (as defined per D.16-08-019, OP 10)	\$0.0	\$18.3
	Non-Labor T	otal	\$55.1	\$45.7
Commercial To			\$67.3	\$54.8
	Other (litigated through GRC) (2)	Labor Overheads	\$1.8	\$1.3

⁽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.17-05-013) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2017-2019, issue date of May 11, 2017. The 2020-2022 GRC Decision is still pending at the time of this filling.

Sector	Cost Element	Functional Group	2019 EE Portfolio Expenditures (\$Million)	2021 EE Portfolio Budget (\$Million)
Industrial	Labor (1)	Policy, Strategy, and Regulatory Reporting Compliance	\$0.2	\$0.7
		Program Management	\$1.0	\$1.2
		Engineering services	\$1.0	\$1.8
		Customer Application/Rebate/Incentive Processing	\$0.1	\$0.1
		Customer Project Inspections	\$0.0	\$0.1
		Portfolio Analytics	\$0.1	\$0.2
		ME&O (Local)	\$0.1	\$0.1
		Account Management / Sales	\$1.7	\$3.4
		IT	\$0.6	\$0.6
		Call Center	\$0.0	\$0.1
	Labor Total		\$4.8	\$8.1
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$0.2	\$5.1
		Local/Government Partnerships Contracts (3)	\$0.0	\$0.0
		Other Contracts		
		Program Implementation	\$11.9	\$4.6
		Policy, Strategy, and Regulatory Reporting Compliance	\$0.1	\$0.2
		Program Management	\$0.2	\$0.4
		Engineering services	\$0.7	\$0.8
		Customer Application/Rebate/Incentive Processing	\$0.0	\$0.0
		Customer Project Inspections	\$0.0	\$0.0
		Portfolio Analytics	\$0.0	\$0.0
		ME&O (Local)	\$0.2	\$0.1
		Account Management / Sales	\$0.0	\$0.1
		IT	\$0.5	\$0.7
		Call Center	\$0.0	\$0.0
		Facilities	\$0.0	\$0.0
		Incentives(PA-implemented and Other Contracts Program Implementation) Programs	\$6.5	\$7.7
		IncentivesThird Party Program (as defined per D.16-08-019, OP 10) (3)	-\$0.4	\$3.9
	Non-Labor Tota		\$19.9	\$23.6
Industrial Tota			\$24.7	\$31.7
	Other (litigated through GRC) (2)	Labor Overheads	\$0.7	\$1.2

- Labor costs are already loaded with employee benefits costs.
 Negative incentives primarily represents a reversal of an accrual from the previous year.
 These costs are collected in the EE balancing account but are litigated in the GRC Decision (D.17-05-013) Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2017-2019, issue date of May 11, 2017. The 2020-2022 GRC Decision is still pending at the time of this filling.

			2019 EE	2021 EE
			Portfolio	Portfolio
	Cost		Expenditures	Budget
Sector	Element	Functional Group	(\$Million)	(\$Million)
Agricultural	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	\$0.1	\$0.3
		Program Management	\$0.6	\$0.5
		Engineering services	\$0.8	\$0.6
		Customer Application/Rebate/Incentive Processing	\$0.1	\$0.1
		Customer Project Inspections	\$0.0	\$0.1
		Portfolio Analytics	\$0.1	\$0.1
		ME&O (Local)	\$0.1	\$0.1
		Account Management / Sales	\$1.1	\$1.2
		IT	\$0.4	\$0.2
		Call Center	\$0.0	\$0.0
	Labor Total		\$3.3	\$3.3
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$0.1	\$2.5
		Local/Government Partnerships Contracts (3)	\$0.0	\$0.0
		Other Contracts		
		Program Implementation	\$1.3	\$0.0
		Policy, Strategy, and Regulatory Reporting Compliance	\$0.1	\$0.1
		Program Management	\$0.2	\$0.2
		Engineering services	\$0.5	\$0.2
		Customer Application/Rebate/Incentive Processing	\$0.0	\$0.0
		Customer Project Inspections	\$0.0	\$0.0
		Portfolio Analytics	\$0.0	\$0.0
		ME&O (Local)	\$0.3	\$0.2
		Account Management / Sales	\$0.0	\$0.0
		IT	\$0.3	\$0.3
		Call Center	\$0.0	\$0.0
		Facilities	\$0.0	\$0.0
		Incentives(PA-implemented and Other Contracts Program Implementation) Programs	\$4.9	\$4.7
		IncentivesThird Party Program (as defined per D.16-08-019, OP 10)	\$0.0	\$2.4
	Non-Labor		\$7.6	\$10.6
Agricultural To	otal		\$10.9	\$13.9
	Other (litigated through GRC) (2)	Labor Overheads	\$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.17-05-013) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2017-2019, issue date of May 11, 2017. The 2020-2022 GRC Decision is still pending at the time of this filling.

			2019 EE Portfolio	2021 EE Portfolio
	Cost		Expenditures	Budget
Sector	Element	Functional Group	(\$Million)	(\$Million)
Public	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	\$0.6	\$0.3
		Program Management	\$2.6	\$1.4
		Engineering services	\$0.2	\$0.2
		Customer Application/Rebate/Incentive Processing	\$0.1	\$0.1
		Customer Project Inspections	\$0.0	\$0.0
		Portfolio Analytics	\$0.2	\$0.1
		ME&O (Local)	\$0.1	\$0.0
		Account Management / Sales	\$2.2	\$1.5
		IT	\$0.9	\$0.3
		Call Center	\$0.0	\$0.0
	Labor Total		\$6.8	\$3.9
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$0.0	\$5.2
		Local/Government Partnerships Contracts	\$11.6	\$0.0
		Other Contracts		
		Program Implementation	\$8.6	\$1.9
		Policy, Strategy, and Regulatory Reporting Compliance	\$0.2	\$0.1
		Program Management	\$0.3	\$0.2
		Engineering services	\$0.3	\$0.2
		Customer Application/Rebate/Incentive Processing	\$0.0	\$0.0
		Customer Project Inspections	\$0.0	\$0.0
		Portfolio Analytics	\$0.0	\$0.0
		ME&O (Local)	\$0.2	\$0.0
		Account Management / Sales	\$0.0	\$0.0
		IT	\$0.9	\$0.3
		Call Center	\$0.0	\$0.0
		Facilities	\$0.0	\$0.0
		Incentives(PA-implemented and Other Contracts Program Implementation) Programs	\$12.2	\$2.8
		IncentivesThird Party Program (as defined per D.16-08-019, OP 10)	\$0.0	\$1.4
	Non-Labor To	otal	\$34.3	\$12.2
Public Total			\$41.1	\$16.1
	Other (litigated through GRC) (2)	Labor Overheads	\$0.9	\$0.6

⁽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.17-05-013) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2017-2019, issue date of May 11, 2017. The 2020-2022 GRC Decision is still pending at the time of this filling.

			2019 EE Portfolio	2021 EE Portfolio
	Cost		Expenditures	Budget
Sector	Element	Functional Group	(\$Million)	(\$Million)
Cross-	Labor (1)	Policy, Strategy, and Regulatory Reporting Compliance	\$0.7	\$0.9
cutting		Program Management	\$4.4	\$4.7
		Engineering services	\$1.6	\$1.8
		Customer Application/Rebate/Incentive Processing	\$0.7	\$0.7
		Customer Project Inspections	\$0.0	\$0.0
		Portfolio Analytics	\$0.2	\$0.2
		ME&O (Local)	\$0.2	\$0.5
		Account Management / Sales	\$0.9	\$0.4
		IT	\$0.1	\$0.8
		Call Center	\$0.0	\$0.1
	Labor Total		\$8.8	\$10.3
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$12.8	\$7.7
		Local/Government Partnerships Contracts	\$0.0	\$0.0
		Other Contracts		
		Program Implementation	\$13.8	\$22.4
		Policy, Strategy, and Regulatory Reporting Compliance	\$0.1	\$0.3
		Program Management	\$0.7	\$0.6
		Engineering services	\$2.1	\$1.7
		Customer Application/Rebate/Incentive Processing	\$0.1	\$0.1
		Customer Project Inspections	\$0.0	\$0.0
		Portfolio Analytics	\$0.0	\$0.0
		ME&O (Local)	\$0.7	\$1.0
		Account Management / Sales	\$0.0	\$0.0
		IT	\$0.3	\$0.9
		Call Center	\$0.0	\$0.0
		Facilities	\$0.0	\$0.0
		Incentives(PA-implemented and Other Contracts Program Implementation) Programs	\$0.0	\$0.0
		IncentivesThird Party Program (as defined per D.16-08-019, OP 10)	\$0.0	\$0.0
	Non-Labor	Total	\$30.5	\$34.8
Cross-cutting	Total		\$39.3	\$45.0
	Other (litigated through GRC) (2)	Labor Overheads	\$1.3	\$1.5

⁽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.17-05-013) - Decision Authorizing Pacific Gas and Electric Company's General Rate Case Revenue Requirement for 2017-2019, issue date of May 11, 2017. The 2020-2022 GRC Decision is still pending at the time of this filling.

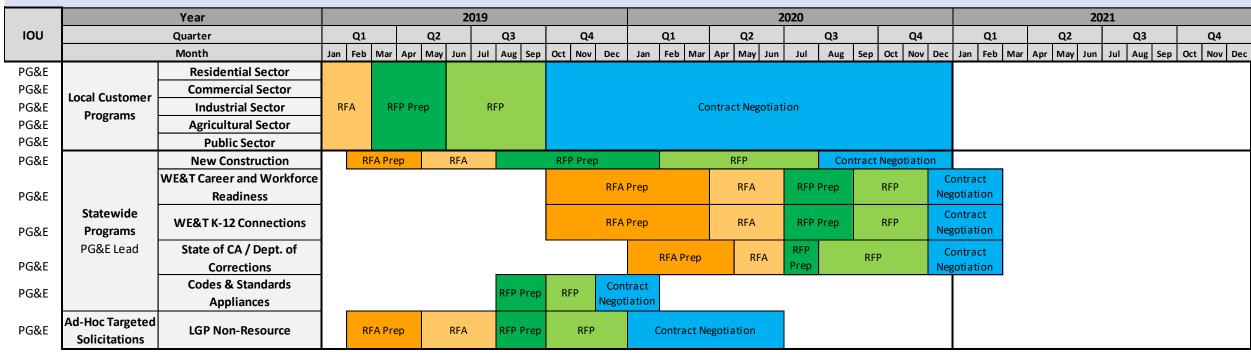
Appendix II.A. Question C-8: Portfolio Summary

	2019 EE	Portfolio Expe	enditures (\$M	illion)	,	2021 EE Portfoli	o Budget (\$Mi	llion)	2019 EE	Portfolio S	avings	2021 EE Por	tfolio Fored	casted Savings
Sector	Labor	Non-Labor (excl. Incentives)	Incentives	Total	Labor	Non-Labor (excl. Incentives)	Incentives	Total	KWH	KW	MTHERMS	KWH	KW	MTHERMS
Residential	\$8.4	\$22.2	\$58.5	\$89.1	\$6.3	\$33.3	\$10.3	\$50.0	319,006,980	53,794	4.6	178,135,896	44,668	6.8
Commercial	\$12.2	\$26.5	\$28.6	\$67.3	\$9.0	\$20.9	\$24.8	\$54.8	95,775,512	18,860	2.0	64,111,284	10,010	2.7
Agricultural	\$3.3	\$2.7	\$4.9	\$10.9	\$3.3	\$3.5	\$7.1	\$13.9	18,135,463	6,478	0.1	17,782,872	3,962	0.1
Industrial	\$4.8	\$13.9	\$6.0	\$24.7	\$8.1	\$12.0	\$11.6	\$31.7	18,362,190	1,325	5.4	63,517,763	4,881	4.8
Public (GP)	\$6.8	\$22.0	\$12.2	\$41.1	\$3.9	\$8.0	\$4.2	\$16.1	50,057,650	6,837	0.0	14,776,003	1,701	0.2
Cross Cutting*	\$8.8	\$30.5	\$0.0	\$39.3	\$10.3	\$34.8	\$0.0	\$45.0	748,297,203	165,187 15.2		1,023,053,958	220,550	14.6
Total Sector Budget	\$44.3	\$117.8	\$110.4	\$272.5	\$40.9	\$112.5	\$58.0	\$211.4	1,249,634,998	252,480	27.3	1,361,377,776	285,772	29.2
DSM	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	n/a	n/a	n/a	n/a	n/a	n/a
EM&V-PA	\$1.2	\$1.2	\$0.0	\$2.5	\$1.1	\$1.7	\$0.0	\$2.9	n/a	n/a	n/a	n/a	n/a	n/a
EM&V-ED	\$0.0	\$11.9	\$0.0	\$11.9	\$0.0	\$6.6	\$0.0	\$6.6	n/a	n/a	n/a	n/a	n/a	n/a
OBF - Loan Pool	\$0.0	\$0.0	\$31.1	\$31.1	\$0.0	\$0.0	\$17.0	\$17.0	n/a	n/a	n/a	n/a	n/a	n/a
EE Total	\$45.6	\$131.0	\$141.4	\$318.0	\$42.1	\$120.9	\$75.0	\$238.0	n/a	n/a	n/a	n/a	n/a	n/a

^{*} Cross Cutting Sector includes Codes & Standards, Emerging Technologies, Workforce Education & Training, Financing.

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

Joint IOU Energy Efficiency Solicitation Timeline Schedule as of 7/30/2020 (Schedule may be subject to change at IOU's discretion)



Attachment 4

Appendices

PG&E Supplemental 2021 ABAL Attachment 4 Appendix Tables

All Attachment 4 Appendix Tables are downloadable on PG&E's 2021 Budget Filing dashboard on CEDARS.

Appendix Table Number	Location in Filing Materials
Tables 1 – 8	Included in this attachment.
Table 9	Included as Table 1 of the advice letter.
Table 10	Included in this attachment.
Tables 11 – 18 (and Functions Definitions table)	Included in Attachment 3 for Supplemental
Tables 11 – 18 (and Functions Definitions table)	Budget Information.
Table 19	Included in this attachment.

Attachment 4, Table 1

PA Name: Pacific Gas and Electric Company

Budget Year: 2021

Table 1 -Bill Payer Impacts - Rates by Custom	ner Class			
	Electric Average Rate (Res and Non-Res) \$/kwh	Gas Average Rate (Non-CARE Residential) \$/therm	Total Average Bill Savings by Year (\$)	Total Average Lifecycle Bill Savings (\$)
Present Rates - System Average				
2018	\$ 0.19545	\$ 1.53810	\$ 296,725,167	\$ 3,461,239,273
2019	\$ 0.20701	\$ 1.56836	\$ 301,462,245	\$ 3,456,129,207
2020	\$ 0.22169	\$ 1.68169	\$ 274,428,669	\$ 3,129,687,409
2021*	\$ 0.22213	\$ 1.67328	\$ 351,276,921	\$ 3,958,293,213

^{* =} Based on current effective rates

- 1) Average first year electric bill savings is calculated by multiplying an average electric rate with first year net kWh energy savings.
- 2) Average first year gas bill savings is calculated by multiplying an average gas rate with first year net therm energy savings.
- 3) Total average first year bill savings is the sum of Notes 1 and 2.
- 4) Average lifecycle electric bill savings is calculated by multiplying an average electric rate with lifecycle net kWh energy savings.
- 5) Average lifecycle gas bill savings is calculated by multiplying an average gas rate with lifecycle net therm energy savings.
- 6) Total average lifecycle bill savings is the sum of Notes 4 and 5.
- 7) As of 5/1/2020, the bundled average electric rate is \$0.22169
- 8) As of 8/1/2020, the bundled average gas rate is 1.6656 per therm before the impact of EE programs.
- 9) Total Average Bill Savings by Year and Lifecycle Bill Savings include C&S net lifecycle savings and exclude ESA Programs.
- 10) Consistent with SPM TRC/PAC/RIM tests, all savings used from actuals and forecasts in this table are net not gross
- 11) 2018 and 2019 estimated bill savings are based on energy savings from program year annual reports, and 2020 and 2021 estimated bill savings are based on the 2020 and 2021 ABAL forecasts.

Attachment 4, Table 2

PA Name: Pacific Gas and Electric

Budget Year: 2021

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

Customer Classes	2019 Ener Electric An	rgy Efficiency nnual Revenue hange \$000		2019 Electric Average Rate \$/kwh	2019 Energy Efficiency Portion of Electric Average Rate \$/kwh	2020 Energy Efficiency Electric Annual Revenue Change \$000	2020 Percentage Change In Electric Revenues	Aver) Electric rage Rate 5/kwh	2021 Proposed Energy Efficiency Electric Annual Revenue Change \$000	2021 Proposed Percentage Change In Electric Revenues	2021 Electric Average Rate \$/kWh	2021 Energy Efficiency Portion of Electric Average Rate \$/kWh
Bundled 1													
Residential	\$	73,572	2.3%	\$ 0.2152	2 \$ 0.00488	\$ 35,082	1.1%	\$	0.22913	\$ 8,769	0.3%	\$ 0.23229	\$ 0.00316
Commercial - Small	\$	20,179	2.2%	\$ 0.2495	3 \$ 0.00532	\$ 8,713	1.1%	\$	0.26618	\$ 2,178	0.3%	\$ 0.26965	\$ 0.00347
Commercial - Medium	\$	14,730	2.0%	\$ 0.2231	5 \$ 0.00434	\$ 6,966	1.0%	\$	0.23721	\$ 1,741	0.2%	\$ 0.24002	\$ 0.00281
Commercial - Large	\$	17,372	2.0%	\$ 0.1980	1 \$ 0.00383	\$ 8,377	1.0%	\$	0.20694	\$ 2,094	0.2%	\$ 0.20941	\$ 0.00247
Streetlights	\$	720	2.1%	\$ 0.2584	2 \$ 0.00522	\$ 235	0.9%	\$	0.30458	\$ 59	0.2%	\$ 0.30796	\$ 0.00338
Standby	\$	1,431	2.9%	\$ 0.1588				\$	0.18482	\$ 258	0.3%	\$ 0.18764	\$ 0.00282
Agricultural	\$	18,001	1.9%	\$ 0.2120				\$	0.25109	\$ 2,251	0.2%	\$ 0.25353	\$ 0.00244
Industrial	\$	17,662	1.7%	\$ 0.1585	8 \$ 0.00272	\$ 8,926	0.8%	\$	0.16657	\$ 2,231	0.2%	\$ 0.16831	\$ 0.00174
<u>Direct Access Service 2</u>					·								
Residential	\$	63,999	3.2%	\$ 0.1596		, , .		\$	0.17293	\$ 8,780	0.4%	\$ 0.17609	\$ 0.00316
Commercial - Small	\$	23,561	3.5%	\$ 0.1590				\$	0.17919	\$ 3,327	0.4%	\$ 0.18266	\$ 0.00347
Commercial - Medium	\$	23,919	3.5%	\$ 0.1279				\$	0.14831	\$ 2,978	0.4%	\$ 0.15112	\$ 0.00281
Commercial - Large	\$	34,856	3.8%	\$ 0.1035				\$	0.11757	\$ 4,584	0.4%	\$ 0.12004	\$ 0.00247
Streetlights	\$	645	3.2%	\$ 0.1667		•		\$	0.17360	\$ 107	0.4%	\$ 0.17698	\$ 0.00338
Standby	\$	159	3.1%	\$ 0.1532		'		\$	0.16453	\$ 28	0.3%	\$ 0.16735	\$ 0.00282
Agricultural	\$	3,783	2.7%	\$ 0.1498		, , , , , , , , , , , , , , , , , , , ,		\$	0.16531	\$ 505	0.3%	\$ 0.16775	\$ 0.00244
Industrial	\$	26,304	4.1%	\$ 0.0682	8 \$ 0.00272	, , , , ,		\$	0.07743	\$ 3,276	0.4%	\$ 0.07917	\$ 0.00174
Departed Load	\$	6,360	25.2%			\$ 4,803	10.6%			\$ 1,201	2.4%		

 $[\]ast$ 2020 total revenues from May 1, 2020 Rate Change as filed in AL 5661-E

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

Customer Classes	Gas A	Energy Efficiency Annual Revenue Change * \$000	2019 Percentage Change In Gas Revenue	2019 Gas Average Rate \$/therm	2019 Energy Efficiency Portion of Gas Average Rate \$/therm	2020 Energy Efficiency Gas Annual Revenue Change \$000	5 2020 Percentage Change In Gas Revenue	è	2020 Gas Average Rate \$/therm	2021 Proposed Energy Efficiency Gas Annual Revenue Change \$000	2021 Proposed Percentage Change In Gas Revenue	2021 Gas Average Rate \$/therm	2021 Energy Efficiency Portion of Gas Average Rat \$/therm
Core Retail Bundled		Ψ000	In our revenue	ψ, ε	ψ/ επετπι	4000	210 / 62140		φ, εποτιπ	Ψ000	Change in Gas revenue	Ψ/ 61102 111	φ/ 610111
Residential - Non-CARE	\$	16,264	0.8%	\$ 1.5684	\$ 0.0127	\$ 3,986	0.2%	\$	1.6817	\$ (9,730)	-0.5%	\$ 1.6741	\$ 0.0082
Residential - CARE	\$	4,245	0.8%	\$ 1.2443				\$	1.3247		-0.5%	\$ 1.3172	
Commercial - Small	\$	12,822	2.4%	\$ 1.0966	\$ 0.0293	\$ 3,142	0.6%	\$	1.2146	\$ (7,671)	-1.4%	\$ 1.1973	\$ 0.0188
Commercial - Large	\$	704	2.1%	\$ 0.7631	\$ 0.0197	\$ 173	0.6%	\$	0.8316	\$ (421)	-1.4%	\$ 0.8200	\$ 0.0126
Commercial - Natural Gas Vehicle	\$	-	0.0%							, ,			
Core Retail - Transportation Only													
Residential - Non-CARE	\$	1,951	1.1%	\$ 1.2533	\$ 0.0127	\$ 478	0.3%	\$	1.3501	\$ (1,167)	-0.6%	\$ 1.3426	\$ 0.0082
Residential - CARE	\$	509	1.1%	\$ 0.9292	\$ 0.0127	\$ 125	0.3%	\$	0.9932	\$ (305)	-0.6%	\$ 0.9856	\$ 0.0082
Commercial - Small	\$	9,483	3.7%	\$ 0.7979	\$ 0.0293	\$ 2,324	0.8%	\$	0.9031	\$ (5,673)	-1.9%	\$ 0.8857	\$ 0.018
Commercial - Large	\$	613	3.7%	\$ 0.4932	\$ 0.0197	\$ 150	0.9%	\$	0.5571	\$ (367)	-2.1%	\$ 0.5454	\$ 0.0126
Commercial - Natural Gas Vehicle	\$	-											
Noncore- Transportation Only 2													
Industrial - Distribution	\$	7,344	8.2%	\$ 0.3761	\$ 0.0294	\$ 1,800	1.8%	\$	0.3964	\$ (4,394)	-4.3%	\$ 0.3790	
Industrial - Transmission	\$	13,830	5.7%	\$ 0.2011	\$ 0.0084	\$ 3,354	1.2%	\$	0.2003	\$ (8,257)	-3.0%	\$ 0.1953	
Industrial - Backbone	\$	112	15.6%	\$ 0.1071	\$ 0.0084	\$ 63	8.1%	\$	0.0930	\$ (84)	-10.0%	\$ 0.0880	\$ 0.0054
Electric Generation			0.0%										
Natural Gas Vehicle			0.0%										
Wholesale			0.0%										
Unbundled Backbone and Storage			0.0%										
Total Annual Revenue Requirement	\$	67,877	1.5%			\$ 16,636				\$ (40,608)			

^{*2019} Energy Efficiency Revenues were allocated based on the adopted GCAP volumes (D. 19-10-036) in order to isolate the impacts of the change in Energy Efficiency Revenues only.

** Gas revenue requirements from Appendix Table 3c are reflected in this rate impact table.

^{**} Electric revenue requirements from Appendix Table 3c are reflected in this rate impact table.

Budget Year: 2021

Table 3a - Budget and Cost Recovery by Funding Source

	2021
2021 EE Portfolio Budget	\$ 274,714,532
Unspent/Uncommitted Program Carryover Funds from pre-2021 [1]	\$ 11,469,674
Total Funding Request for 2021 EE Portfolio	\$ 263,244,857

Table 3b - Budget by Funding Source [2]

2021 Authorized (Before Carryover)	2021 Budget	Allocation
Electric Procurement EE Funds	\$ 228,162,254	83.05%
Gas PPP Surcharge Funds	\$ 46,552,278	16.95%
Total Funds	\$ 274,714,532	100%

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

		Allocation after
	2021 Revenue	Carryover
2021 Authorized Funding in Rates (including carryover)	Requirement	adjustment
Electric Procurement EE Funds	\$ 219,347,239	83.3%
Gas PPP Surcharge Funds	\$ 43,897,619	16.7%
Total Funds	\$ 263,244,857	100%

		Electric			
Total Unspent/Uncommitted Funds	Electric PGC	Procurement	Total Electric	Gas	Total
2020	\$ -	\$ 10,317,165	\$ 10,317,165	\$ 4,421,642	\$ 14,738,807
2018-2019	\$ -	\$ 5,497,850	\$ 5,497,850	\$ 1,233,017	\$ 6,730,867
Total Pre-2021	\$ -	\$ 15,815,015	\$ 15,815,015	\$ 5,654,659	\$ 21,469,674

			Electric				
EM&V Unspent/Uncommitted Funds	Electric PGC	:	Procurement	1	Total Electric	Gas	Total
2020	\$ -	\$	-	\$	-	\$ -	\$ -
2018-2019	\$ -	\$	23,272	\$	23,272	\$ 7,349	\$ 30,621
Total Pre-2021	\$ -	\$	23,272	\$	23,272	\$ 7,349	\$ 30,621

		Electric			
Program Unspent/Uncommitted Funds	Electric PGC	Procurement	Total Electric	Gas	Total
2020	\$ -	\$ 10,317,165	\$ 10,317,165	\$ 4,421,642	\$ 14,738,807
2018-2019	\$ -	\$ 5,474,578	\$ 5,474,578	\$ 1,225,668	\$ 6,700,246
Total Pre-2021	\$ -	\$ 15,791,743	\$ 15,791,743	\$ 5,647,310	\$ 21,439,053

[1] This total includes unspent and uncommitted funds for the IOU, RENs, and CCA, but excludes the IOU's PY2020 estimated unspent and uncommitted funds total of \$10,000,000. The IOU estimated unspent and uncommitted funds for PY2020 will not be returned in 2021 because California Assembly Bill 841 requires the IOUs to allocate PY2020 unspent and uncommitted funds to a 2021 School Energy Efficiency Stimulus Program budget, per Section 1615(a)(1), so these unspent and uncommitted funds are unavailable for return to ratepayers or 2021 EE portfolio budget recovery offset.

[2] The electric and gas split for program year 2021 is forecasted to be 83%/17%, applicable to the portion of PG&E's EE portfolio budget that will not be supporting fuel substitution program activities. The portfolio budget that is forecasted to support fuel-substitution activities will be recovered 100% through electric rates only. See advice letter Section III.J.1., Table 15 for more details on the fuel-substitution budget. The resulting electric/gas split for the entire portfolio, including fuel-substitution activities, is 83.05% electric / 16.95% gas before carryover offset.

[3] Funds in Table 3d include unspent and uncommitted funds for the IOUs, RENs, and CCA, as well as IOU PY2020 estimated unspent and uncommitted carryover amount of \$10,000,000. The IOU estimated unspent and uncommitted funds for PY2020 will not be returned in 2021 because California Assembly Bill 841 requires the IOUs to allocate PY2020 unspent and uncommitted funds to a 2021 School Energy Efficiency Stimulus Program budget, per Section 1615(a)(1), so these unspent and uncommitted funds are unavailable for return to ratepayers or 2021 EE portfolio budget recovery offset.

Attachment 4, Table 4

PA Name: Pacific Gas and Electric Company

Budget Year: 2021

Table 4 - Budget, Spent, Unspent, Carryover Details [1]

New/Existing Program#	Discontinued Program #	Main Program Name / Sub-Program Name	2020 Budget Spent as of 07/31/2020 [2]	20	021 Proposed Budget		Expected 2020 Unspent/ Uncommitted and ny Remaining Pre- 2020 Unspent/ Uncommitted Funding		2021 Funds Requested	Program Type	New Business Sector
Residential - Local								L			
	PGE21001	Residential Energy Advisor [3]	\$ 12,197,688	\$	-	\$	-	\$	-	IOU Core/Statewide	Residential
	PGE21004	Energy Upgrade California [4]	\$ (73,923	\ e	-	\$	-	\$		IOU Core/Statewide	Residential
	PGE21004	Residential HVAC [4]	\$ (73,923			\$		\$		IOU Core/Statewide	Residential
	PGE210010	Pay for Performance Pilot [3]	\$ 2,075,521		-	\$		\$	-	Third/Local Party	Residential
PGE_Res_002a		Residential Energy Advisor - HEC	\$ -	\$	2,166,035	\$		\$	2,166,035	Third/Local Party	Residential
PGE_Res_002b		Residential Energy Advisor - Marketplace	\$ -	\$	1,486,202	\$	-	\$	1,486,202	Third/Local Party	Residential
PGE_Res_002c		Residential Energy Advisor - Home Energy Reports	\$ -	\$	8,459,626	\$	-	\$		Third/Local Party	Residential
PGE21002		Residential Energy Efficiency	\$ 2,071,758		954,279	\$		\$		IOU Core/Statewide	Residential
PGE21005		Residential New Construction	\$ 2,434,092		3,941,698	\$		\$		IOU Core/Statewide	Residential
PGE21007		California New Homes Multifamily	\$ 741,063		2,515,018			\$		Third/Local Party	Residential
PGE_Res_001a		Pay for Performance – Comfortable Home Rebates	\$ -	\$	3,472,921	\$		\$		Third/Local Party	Residential
PGE_Res_001b PGE_Res_001c	-	Pay for Performance – Home Intel Pay for Performance – Home Energy Rewards	\$ - \$ -	\$	665,053 756,158			\$	665,053 756,158	Third/Local Party Third/Local Party	Residential Residential
PGE_Res_001d		Pay for Performance – Home Energy Rewards Pay for Performance – Home Energy Optimization	\$ -	\$				\$		Third/Local Party Third/Local Party	Residential
PGE_Res_003		Multifamily Energy Savings Program	\$ -	\$	4,180,340	\$		\$		Third/Local Party	Residential
PGE_3P_Res		New Local 3P - Residential	\$ -	\$	12,298,994	\$	-		12,298,994	Third/Local Party	Residential
			*	Ť	,,	Ť		Ť	,		
Residential - Statewide											
PGE_SW_NC_Res		New Construction Residential	\$ -	\$	2,413,152	\$	-	\$	2,413,152	IOU Core/Statewide	Residential
PGE_SW_PLA		Plug Load and Appliance	\$ -	\$	3,306,000		-	\$		IOU Core/Statewide	Residential
PGE_SW_NC_Res_PA		New Construction Residential PA Costs	\$ -	\$	505,023			\$		IOU Core/Statewide	Residential
PGE_SW_PLA_PA		Plug Load and Appliance - PGE Costs	\$ -	\$	171,541	\$	-	\$	171,541	IOU Core/Statewide	Residential
				-		<u> </u>					
Commercial - Local				-		-					
PGE21011		Commercial Calculated Incentives	\$ 3,440,061	\$	6,547,962	\$	-	\$	6,547,962	IOU Core/Statewide	Commercial
PGE211025		Savings by Design (SBD)	\$ 15,183		1,287,816			\$		IOU Core/Statewide	Commercial
PGE21012		Commercial Deemed Incentives	\$ 4.673.192					\$		IOU Core/Statewide	Commercial
PGE21014		Commercial Energy Advisor	\$ 866,299		1,357,312	\$	-	\$	1,357,312	IOU Core/Statewide	Commercial
PGE210143		Hospitality Program	\$ 4,903,608		3,024,456	\$	-	\$	3,024,456	Third/Local Party	Commercial
PGE_3P_Com		New 3P Placeholder - Commercial	\$ -	\$	14,301,883	\$	-	\$	14,301,883	Third/Local Party	Commercial
PGE_Com_001		Grocery Comprehensive Retrofit & Commissioning	\$ -	\$	919,475	\$	-	\$	919,475	Third/Local Party	Commercial
PGE_Com_002		Smart Labs	\$ -	\$	732,473	\$	-	\$	732,473	Third/Local Party	Commercial
Commercial - Statewide											
PGE_SW_FS		Food Service POS	\$ -	\$	5,637,634	\$	-	\$	5,637,634	IOU Core/Statewide	Commercial
PGE_SW_HVAC_Up		Upstream HVAC (Comm + Res)	\$ -	\$	4,715,920			\$.,,	IOU Core/Statewide	Residential
PGE_SW_MCWH		Midstream Comm Water Heating	\$ -	\$				\$		IOU Core/Statewide	Commercial
PGE_SW_NC_NonRes		New Construction Non-Residential	\$ - \$ -	\$	912,000	\$	<u> </u>	\$		IOU Core/Statewide	Commercial
PGE_SW_UL PGE SW FS PA	+	Lighting (Upstream) Food Service POS - PGE Costs	\$ - \$ -	\$	3,324,672 531,703	\$		\$		IOU Core/Statewide IOU Core/Statewide	Commercial Commercial
PGE_SW_FS_PA		Upstream HVAC (Comm + Res) - PGE Costs	\$ -	\$	369,930	\$		\$		IOU Core/Statewide	Residential
PGE_SW_MCWH_PA	+	Midstream Comm Water Heating - PGE Costs	\$ -	\$	498,064	\$		\$		IOU Core/Statewide	Commercial
PGE_SW_NC_NonRes_PA		New Construction Non-Residential PA Costs	\$ -	\$	296,754	\$		\$	296,754	IOU Core/Statewide	Commercial
PGE_SW_UL_PA		Lighting (Upstream) - PGE Costs	\$ -	\$	180,830			\$		IOU Core/Statewide	Commercial
		<u> </u>		Ľ				Ľ			
-											
			1								
Agricultural - Local											
PGE_Ag_001		Agriculture Energy Savings Action Plan	\$ -	\$	5,747,864		-	\$		Third/Local Party	Agricultural
		Agriculture Energy Savings Action Plan Agricultural Calculated Incentives Agricultural Deemed Incentives	\$ - \$ (358,080 \$ 1,574,950) \$	5,332,820	\$	-	\$ \$	5,332,820	Third/Local Party IOU Core/Statewide IOU Core/Statewide	Agricultural Agricultural Agricultural

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Table 4 - Budget, Spent, Unspent, Carryover Details [1]

New/Existing Program #	Discontinued Program #	Main Program Name / Sub-Program Name		2020 Budget Spent as of 07/31/2020 [2]	202	21 Proposed Budget	Expected 2020 Unspent/ Uncommitted and Any Remaining Pre- 2020 Unspent/ Uncommitted Funding		2021 Funds Requested	Program Type	New Business Sector
PGE21036		Industrial Refrigeration Performance Plus	\$	261	\$	25,073		\$	25,073	Third/Local Party	Cross-Cutting
Industrial - Local			_					-			
industriai - Locai	PGE21023	Industrial Continuous Energy Improvement [3]	\$	(0)	\$	_	\$ -	\$	_	IOU Core/Statewide	Industrial
	PGE21030	Industrial Strategic Energy Management [3]	\$	734,094			\$ -	\$		Third/Local Party	Industrial
PGE21021	1 0221000	Industrial Calculated Incentives	\$	194,563		6.905.837		\$		IOU Core/Statewide	Industrial
PGE21022		Industrial Deemed Incentives	\$	176,797	\$	249,264	\$ -	\$	249,264	IOU Core/Statewide	Industrial
PGE21024		Industrial Energy Advisor	\$	186,302	\$	286,942	\$ -	\$	286,942	IOU Core/Statewide	Industrial
PGE210210		Industrial Recommissioning Program	\$	404,379	\$	1,487,409	\$ -	\$	1,487,409	Third/Local Party	Industrial
PGE210212		Compressed Air and Vacuum Optimization Program	\$	138,085		786,909		\$		Third/Local Party	Industrial
PGE21027		Heavy Industry Energy Efficiency Program	\$	3,420,945	_	2,730,552	•	\$, ,	Third/Local Party	Industrial
PGE_Ind_001a		Industrial Strategic Energy Management - Food Processing	\$	-	\$	3,904,795		\$		Third/Local Party	Industrial
PGE_Ind_001b		Industrial Strategic Energy Management - Manufacturing	\$	-	\$	4,729,376		\$		Third/Local Party	Industrial
PGE_Ind_002		Business Energy Performance Program	\$	-	\$	5,935,884		\$		Third/Local Party	Industrial
PGE_Ind_003		Industrial Systems Optimization Program	\$	-	\$	4,715,582	\$ -	\$	4,715,582	Third/Local Party	Industrial
Public - Local			-								
PGE_Pub_009		Government & K-12 Comprehensive Program	\$	-	\$	3,231,803	\$ -	\$	3,231,803	Third/Local Party	Public
PGE_Pub_010		RAPIDS Wastewater Treatment Optimization Program	\$	-	\$	630,065	\$ -	\$	630,065	Third/Local Party	Public
PGE2110011		California Community Colleges	\$	359,447	\$	1,221,073	\$ -	\$	1,221,073	State Institutional Partnership	Public
PGE2110012		University of California/California State University	\$	(1,800,458)	\$	1,862,921		\$	1,862,921	State Institutional Partnership	Public
PGE2110013		State of California	\$	37,338		619,000		\$		State Institutional Partnership	Public
PGE2110014		Department of Corrections and Rehabilitation	\$	(250,436)		798,914		\$		State Institutional Partnership	Public
PGE2110051		Local Government Energy Action Resources (LGEAR)	\$	7,476,630	\$	3,041,724	-	\$	3,041,724	Local Government Partnership	Public
Public - Statewide	•										
PGE_SW_IP_Gov		Institutional Partnerships: DGS & DoC	\$	-	\$	190,000	\$ -	\$	190,000	State Institutional Partnership	Public
PGE_SW_IP_Gov_PA		Institutional Partnerships: DGS & DoC - PGE Costs	\$	-	\$	66,917	\$ -	\$	66,917	State Institutional Partnership	Public
Public LGP - Local								+			
PGE_Pub_001		Central Coast Leaders in Energy Action Program	\$	18,179		346,844		\$			Public
PGE_Pub_002		Marin Energy Watch Partnership	\$	16,119		278,311		\$		Local Government Partnership	Public
PGE_Pub_003		Redwood Coast Energy Watch	\$	19,446		375,390		\$		Local Government Partnership	Public
PGE_Pub_004		Central California Energy Watch	\$	54,781		801,965		\$		Local Government Partnership	Public
PGE_Pub_005		San Mateo County Energy Watch Program	\$	28,554	_	449,257		\$		Local Government Partnership	Public
PGE_Pub_006 PGE_Pub_007		Energy Access SF Sierra Nevada Energy Watch	\$ \$	39,676 52,376		1,006,037 747,981		\$		Local Government Partnership Local Government Partnership	Public Public
PGE_Pub_008		Sonoma Public Energy	\$			397,072		\$		Local Government Partnership	Public
								t			
Financing - Local	,	Third Darks Figure in a [C]	_	(00.11	6		•	_		1011 0 (0)	0 0 ***
PGE21092 PGE21093	 	Third-Party Financing [5]	\$	(361)	_	-	\$ -	\$		IOU Core/Statewide	Cross-Cutting
PGE21093 PGE21091	 	New Financing Offerings [6] On-Bill Financing (excludes Loan Pool)	\$	2,669,950	\$	1,163,933	\$ - \$ -	\$		IOU Core/Statewide IOU Core/Statewide	Cross-Cutting Cross-Cutting
PGE210911		On-Bill Financing (excludes Loan Pool) On-Bill Financing Alternative Pathway	\$	262,641		3,922,177		\$		IOU Core/Statewide	Cross-Cutting Cross-Cutting
Financing Loan Pool - Lo	cal							L			
PGE_LoanPool		Financing Loan Pool Addition	\$	14,648,574	\$	17,000,000	\$ -	\$	17,000,000	Non-Program	Cross-Cutting
Codes & Standards - Loca	ıl .							\pm			
PGE21053		Compliance Improvement	\$	3,485,412	\$	5,533,011	\$ -	\$	5,533,011	IOU Core/Statewide	Cross-Cutting
PGE21054		Reach Codes	\$	697,973	\$	2,046,633	\$ -	\$	2,046,633	IOU Core/Statewide	Cross-Cutting

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Table 4 - Budget, Spent, Unspent, Carryover Details [1]

New/Existing Program#	Discontinued Program #	Main Program Name / Sub-Program Name	Sp	20 Budget pent as of 7/31/2020 [2]	202	21 Proposed Budget	Any Remaining Pre- 2020 Unspent/ Uncommitted Funding			021 Funds Requested	Program Type	New Business Sector
PGE21055		Planning and Coordination	\$	917,271	\$	741,468	\$	-	\$	741,468	IOU Core/Statewide	Cross-Cutting
PGE21056		Code Readiness	\$	2,517,553	\$	6,960,989	\$	-	\$	6,960,989	IOU Core/Statewide	Cross-Cutting
												-
Codes & Standards - State	wide											
PGE_SW_CSA_App		State Appliance Standards Advocacy	\$	779,860	\$	1,693,770	\$	-	\$	1,693,770	IOU Core/Statewide	Cross-Cutting
PGE_SW_CSA_Bldg		State Building Codes Advocacy	\$	4,980,348	\$	2,735,280	\$	-	\$	2,735,280	IOU Core/Statewide	Cross-Cutting
PGE_SW_CSA_Natl		National Codes & Standards Advocacy	\$	1,821,722	\$	1,569,630			\$	1,569,630	IOU Core/Statewide	Cross-Cutting
PGE_SW_CSA_App_PA		State Appliance Standards Advocacy PA Costs	\$	993,507	\$	1,874,473			\$	1,874,473	IOU Core/Statewide	Cross-Cutting
PGE_SW_CSA_Bldg_PA		State Building Codes Advocacy PA Costs	\$	576,715	\$	1,507,403			\$	1,507,403	IOU Core/Statewide	Cross-Cutting
PGE_SW_CSA_Nati_PA		National Codes & Standards Advocacy PA Costs	\$	103,581	\$	627,822	\$	-	\$	627,822	IOU Core/Statewide	Cross-Cutting
Emerging Technology - Lo	cal											
PGE21062		Technology Assessments	\$	720,193	\$	1,462,258		-	\$	1,462,258	IOU Core/Statewide	Cross-Cutting
PGE21063		Technology Introduction Support	\$	(16,112)	\$	3,327,076	\$	-	\$	3,327,076	IOU Core/Statewide	Cross-Cutting
Emerging Technology - St	atewide						1					
PGE_SW_ETP_Gas		Emerging Technologies Program, Gas	\$	-	\$	882,000	\$	-	\$	882,000	IOU Core/Statewide	Cross-Cutting
PGE_SW_ETP_Gas_PA		Emerging Technologies Program, Gas - PGE Costs	\$	-	\$	25,675	\$	-	\$	25,675	IOU Core/Statewide	Cross-Cutting
Workforce Ed. & Traing - L	ocal											
PGE21071		Integrated Energy Education and Training	\$	3,580,830	\$	7,258,906	\$	-	\$	7,258,906	IOU Core/Statewide	Cross-Cutting
PGE21072		Connections	\$	544,210	\$	620,112	\$	-	\$	620,112	IOU Core/Statewide	Cross-Cutting
W							<u> </u>					
Workforce Ed. & Traing - S PGE_SW_WET_CC	tatewide	SW WET Career Connections	\$		\$	266,000	\$		\$	266,000	IOU Core/Statewide	Cross-Cutting
PGE_SW_WET_Work		WE&T Career Connections WE&T Career and Workforce Readiness	\$	-	\$	561,943	\$	-	\$	561,943	IOU Core/Statewide	Cross-Cutting Cross-Cutting
PGE SW WET CC PA		SW WET Career Connections – PGE Costs	\$		\$	107.343	_	-	\$	107.343	IOU Core/Statewide	Cross-Cutting
PGE_SW_WET_Work_PA		WE&T Career and Workforce Readiness - PGE Costs	\$	-	\$	141,724	\$	-	\$	141,724	IOU Core/Statewide	Cross-Cutting
							-					
Programs Discontinued in	2021 with 2020 S	pending										
	PGE21008	Enhance Time Delay Relay	\$	1,103,160	\$	-	\$	-	\$	-	Third/Local Party	Residential
	PGE210011	Residential Energy Fitness Program	\$	(1,658,445)		-	\$	-	\$	-	Third/Local Party	Residential
	PGE21003	Multifamily Energy Efficiency	\$	536,362	\$	-	\$	-	\$		IOU Core/Statewide	Residential
	PGE21009	Direct Install for Manufactured and Mobile Homes	\$	1,407,252	\$	-	\$	-	\$	-	Third/Local Party	Residential
	PGE210112	School Energy Efficiency	\$	375,118	\$	-	\$		\$	-	Third/Local Party	Commercial
	PGE210123	Healthcare Energy Efficiency Program	\$	132,339	\$	-	\$		\$	-	Third/Local Party	Commercial
	PGE210135	Water Infrastructure and System Efficiency	\$	542,679	\$	-	\$		\$	-	Third/Local Party	Industrial
	PGE21015	Commercial HVAC	\$	3,670,302	\$	-	\$		\$	-	IOU Core/Statewide	Commercial
	PGE21018	EnergySmart Grocer	\$	2,098,867 308,425	\$	-	\$		\$	-	Third/Local Party	Commercial
	PGE21026 PGE210311	Energy Efficiency Services for Oil Production Process Wastewater Treatment EM Pgm for Ag Food Processing	\$	308,425	\$	-	\$		\$		Third/Local Party Third/Local Party	Industrial Agricultural
	PGE210311 PGE210312	Dairy and Winery Industry Efficiency Solutions	\$	561,639	\$		\$		\$		Third/Local Party Third/Local Party	Agricultural
	PGE210312	Comprehensive Food Process Audit & Resource Efficiency Pgm	\$	287,687	\$		\$		\$		Third/Local Party	Agricultural
	PGE2110052	Strategic Energy Resources	\$	3,677,383	\$	-	\$		\$		Local Government Partnership	Public
	PGE21061	Technology Development Support	\$	56,813	\$		\$	-	\$	_	IOU Core/Statewide	Cross-Cutting
	PGE21076	Career and Workforce Readiness	\$	-	\$	-	\$		\$	-	IOU Core/Statewide	Cross-Cutting
	PGE21041	Primary Lighting	\$	136,275	\$	-	\$	-	\$	-	IOU Core/Statewide	Residential
	PGE21042	Lighting Innovation	\$	3,857	\$	-	\$	-	\$	-	IOU Core/Statewide	Cross-Cutting
	PGE21051	Building Codes Advocacy [7]	\$	(503,023)	\$	-	\$	-	\$	-	IOU Core/Statewide	Cross-Cutting
	PGE21052	Appliance Standards Advocacy [7]	\$	68,175	\$	-	\$		\$	-	IOU Core/Statewide	Cross-Cutting
	PGE21057	National Codes & Standards Advocacy [7]	\$	4,590	\$	-	\$		\$	-	IOU Core/Statewide	Cross-Cutting

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Table 4 - Budget, Spent, Unspent, Carryover Details [1]

New/Existing Program#	Discontinued Program #	Main Program Name / Sub-Program Name	2020 Budget Spent as of 07/31/2020 [2]	2021 Proposed Budget	Expected 2020 Unspent/ Uncommitted and Any Remaining Pre- 2020 Unspent/ Uncommitted Funding	2021 Funds Requested	Program Type	New Business Sector
	PGE21073	Strategic Planning [8]	\$ (4,034)	\$ -	\$ -	\$ -	IOU Core/Statewide	Cross-Cutting
		PA PROGRAM TOTAL	\$ 98,559,792	\$ 228,448,930	\$ -	\$ 228,448,930		
		EM&V (PA & CPUC Portions) Total						
EM&V CPUC		PG&E EM&V - CPUC	\$ 2,030,129	\$ 6,626,061	\$ -	\$ 6,626,061	IOU Core/Statewide	Cross-Cutting
EM&V PG&E		PG&E EM&V - PG&E	\$ 1,114,028			\$ 2,892,644	IOU Core/Statewide	Cross-Cutting
		PA TOTAL with EM&V	\$ 101,703,948	\$ 237,967,635	\$ -	\$ 237,967,635		
		Estimated Unspent and Uncommitted Funds [11]	\$ -	\$ -	\$ 10,000,000			
		TOTAL PA EE PORTFOLIO	\$ 101,703,948	\$ 237,967,635	\$ 10,000,000	\$ 237,967,635		

		ME&O & ESA					
PGE_SWMEO	PGE_SWMEO	Statewide Marketing, Education & Outreach (EE portion only) [9]	\$ 4,733,981	\$ 6,859,212		IOU Core/Statewide	Cross-Cutting
PGE_ESA	PGE_ESA	Energy Savings Assistance Program [10]	\$ 71,405,519	\$ 173,565,480		IOU Core/Statewide	Residential

^[1] Details of PG&E's program changes for its 2021 portfolio can be found in Section III.G. of the advice letter.

^[2] PG&E's 2020 EE budget was approved on December 24, 2019 in Advice Letter 4136-G/5627-E and supplement.

^[3] The Program IDs for Residential Energy Advisor (PGE21001), Pay for Performance Pilot (PGE210010), and Industrial Strategic Energy Management (PGE21030) are being discontinued in CEDARS in 2021, however program activities from these two programs will continue in 2021 under multiple new Program IDs. Program activities from Residential Energy Advisor (PGE21001) will continue under PGE_Res_002a, PGE_Res_002b, and PGE_Res_002c. Program activities from the Pay for Performance Pilot (PGE210010) will continue under PGE_Res_001a, PGE_Res_001b, PGE_Res_001c, and PGE_Res_001d. Program activities from Industrial Strategic Energy Management (PGE20130) will continue under PGE_Ind_001a and [4] The Program IDs for Energy Upgrade California Program (PGE21004) and the Residential HVAC Program (PGE21006) are being discontinued in CEDARS in 2021, however program activities from these two programs will continue in 2021 under the

^[5] Third-party financing will be closed upon completion of commitments in 2021 or 2022. This program is forecasted with \$0 budget because no 2021 spend is expected, however a contract is still in place for management of the remaining third-party

^[6] New Finance Offerings program is exlcuded from the EE ABAL budget as funding for this program was approved via D.13-09-044. See advice letter p.5.

^[7] Minimal expenditures are reported for Q1 2020 for these programs as a result of the transition to new statewide Codes and Standards Advocacy programs. See Section III.G. of the advice letter for more details.

^[8] Strategic planning was sunset in PG&E's 2019 ABAL (Advice 4011-G/5376-E). Residual portfolio overhead payments are shown in Q1 2020 expenditures.

^[9] Statewide ME&O budgets for 2017 through September 2019 were approved in Advice Letter 3783-G/4963-E on January 23, 2017, effective November 28, 2016. Budgets for October 2019 through 2021 were approved in Advice Letter 4098-G/5544-[10] EESA budget reflects the proposed per year submitted in A.19-11-003 submitted November 4, 2019.

¹¹¹¹ The PY2020 estimated unspent and uncommitted funds total of \$10,000,000 will not be returned in 2021 rates. California Assembly Bill 841 requires the IOUs to allocate PY2020 unspent and uncommitted funds to a 2021 School Energy Efficiency Stimulus Program budget, per Section 1615(a)(1), so these unspent and uncommitted funds are unavailable for return to ratepayers or 2021 EE portfolio budget recovery offset.

PA Name: Pacific Gas and Electric Company

Table 5 - Total 2021 Requested and 2017-2020 Revenue Collected (\$000)

Table 5 - Total 2021 Requested and 2017-2020 Revenue	0011	(φ.	1		_		_	
	Elec	etric			Nat	ural Gas		
	Den	nand	Elect	tric Energy	Pub	olic	Tot	al Energy
	Res	ponse	Effic	ciency	Pur	pose	Eff	iciency
Category (2017-20 Authorized ¹ and 2021 Request)	Fun	ds	Fund	ls	Fur	ıds	Fun	ıds
2017 Program Funds - Utility	\$	3,264	\$	327,271	\$	62,337	\$	389,609
2017 Program Funds - REN			\$	13,891	\$	2,646	\$	16,537
2017 Program Funds - CCA			\$	1,333	\$	254	\$	1,586
2017 EM&V			\$	14,271	\$	2,718	\$	16,989
2017 Annualized Total	\$	3,264	\$	356,766	\$	67,955	\$	424,721
2018 Program Funds - Utility	\$	3,264	\$	307,407	\$	58,554	\$	365,961
2018 Program Funds - BayREN			\$	18,787	\$	3,578	\$	22,365
2018 Program Funds - MCE			\$	6,891	\$	1,313	\$	8,204
2018 EM&V			\$	13,879	\$	2,644	\$	16,522
2018 Annualized Total	\$	3,264	\$	346,964	\$	66,088	\$	413,052
2019 Program Funds - Utility	\$	7,771	\$	233,116	\$	73,615	\$	306,731
2019 Program Funds - BayREN (including EM&V)			\$	18,266	\$	5,768	\$	24,034
2019 Program Funds - MCE (including EM&V)			\$	5,279	\$	1,667	\$	6,946
2019 Program Funds - 3C-REN (including EM&V)			\$	2,153	\$	680	\$	2,833
2019 EM&V (IOU only)			\$	9,713	\$	3,067	\$	12,780
2019 Annualized Total	\$	7,771	\$	268,527	\$	84,798	\$	353,325
2020 Program Funds - Utility	\$	7,771	\$	159,760	\$	68,469	\$	228,229
2020 Program Funds - BayREN (including EM&V)			\$	16,612	\$	7,119	\$	23,731
2020 Program Funds - MCE (including EM&V)			\$	4,958	\$	2,125	\$	7,083
2020 Program Funds - 3C-REN (including EM&V)			\$	2,082	\$	892	\$	2,975
2020 EM&V (IOU only)			\$	6,657	\$	2,853	\$	9,510
2020 Annualized Total	\$	7,771	\$	190,069	\$	81,458	\$	271,527
2021 Requested Program Funds - Utility	\$	8,000	\$	189,762	\$	38,687	\$	228,449
2021 Requested Program Funds - BayREN (incl. EM&V)			\$	20,674	\$	4,234	\$	24,908
2021 Requested Program Funds - MCE (incl. EM&V)			\$	6,436	\$	1,318	\$	7,755
2021 Requested Program Funds - 3C-REN (incl. EM&V)			\$	3,390	\$	694	\$	4,084
2021 Requested EM&V (IOU only)			\$	7,901	\$	1,618	\$	9,519
2021 Total Portfolio Request	\$	8,000	\$	228,162	\$	46,552	\$	274,715

 $^{1\} Authorized\ budget\ excludes\ reductions\ from\ past\ unspent\ funds,\ carryover\ and\ is\ consistent\ with\ funding\ approved\ in\ D.\ 09-09-047,\ D.\ 12-11-015,\ D.14-10-046\ and\ D.15-10-028.$

PA Name: Pacific Gas and Electric Company

Table 6 - Committed Energy Efficiency Program Funding - Funds Not Yet Spent as of 7/31/2020

Accrued funds not yet spent (\$000). Category	Electric Procurement Funds	Natural Gas Public Purpose Funds	Total
2013-2015 to date EM&V Funds	\$2,598		\$3,169
2013-2015 to date Program Funds - Utility [1]	(\$189)	(\$42)	(\$231)
2013-2015 to date Program Funds - BayREN	\$3,084	×1 /	\$3,761
2013-2015 to date Program Funds - MCE	\$30	\$7	\$36
2016 to date EM&V Funds	\$12,852	\$2,821	\$15,673
2016 to date Program Funds - Utility [1]	\$0	\$0	\$0
2016 to date Program Funds - BayREN	\$0	\$0	\$0
2016 to date Program Funds - MCE	\$86	\$19	\$105
2017 to date EM&V Funds	\$12,162	\$2,317	\$14,479
2017 to date Program Funds - Utility [1]	\$139	\$26	\$165
2017 to date Program Funds - BayREN	\$36	\$7	\$43
2017 to date Program Funds - MCE	\$0	\$0	\$0
2018 to date EM&V Funds	\$9,661	\$1,840	\$11,501
2018 to date Program Funds - Utility [1]	\$185	\$35	\$221
2018 to date Program Funds - BayREN	\$4,384	\$835	\$5,219
2018 to date Program Funds - MCE	\$188	\$36	\$224
2019 to date EM&V Funds	\$0	\$0	\$0
2019 to date Program Funds - Utility [1]	\$380	\$120	\$500
2019 to date Program Funds - BayREN	\$2,272	\$718	\$2,990
2019 to date Program Funds - MCE	(\$43)	(\$14)	(\$57)
2019 to date Program Funds - 3C REN	\$1,840	\$581	\$2,420
2020 to date EM&V Funds	\$4,456	· · · · · · · · · · · · · · · · · · ·	\$6,365
2020 to date Program Funds - Utility [1]	\$350	· · ·	\$500
2020 to date Program Funds - REN	\$4,387	\$1,880	\$6,267
2020 to date Program Funds - CCA	\$3,759	\$1,611	\$5,371
2020 to date Program Funds - 3C REN	\$1,445	\$619	\$2,064

^[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.

PA Name: Pacific Gas and Electric Company

Table 7 - 2020 Authorized and Spent/Unspent Detail (Spend as of July 31, 2020)

Authorized, spent and unspent program funds (Excludes IOU EM&V and OBF Loans) (\$000)		Electric curement	 tural Gas lic Purpose	
Category] :	Funds	Funds	Total
2020 Annualized Authorized Program Budget	\$	174,667	\$ 73,851	\$ 248,518
2020 Actual Spent [1]	\$	75,052	\$ 30,843	\$ 105,895
2020 Unspent before deducting committed funds	\$	99,615	\$ 43,008	\$ 142,623
2020 Committed funds [2]	\$	9,941	\$ 4,261	\$ 14,202
2020 Unspent as of July 31, 2020 [3]	\$	89,674	\$ 38,747	\$ 128,421
2020 Unspent/uncommitted [4]	\$	10,317	\$ 4,422	\$ 14,739

^[1] Actual spent means funds expensed, including accruals and payments made on previous year commitments as of July 31, 2020.

^{[2] 2020} Committed funds as of July 31, 2020. Represents unspent and committed Financing Pilots, BayREN, MCE, and 3C REN funds.

 $^{[3] \} Excludes \$533,\!000 \ of interest accrued in the balancing account through July 31, 2020 \ (\$423,\!000 \ electric; \$110,\!000 \ gas).$

^[4] Funds to be amortized in 2021 rates. This total includes unspent and uncommitted funds for the IOU, RENs, and CCA, including estimated PY2020 unspent and uncommitted funds. The IOU estimated unspent and uncommitted funds amount of \$10,000,000 for PY2020 will not be returned in 2021 because California Assembly Bill 841 requires the IOUs to allocate PY2020 unspent and uncommitted funds to a 2021 School Energy Efficiency Stimulus Program budget, per Section 1615(a)(1), so these unspent and uncommitted funds are unavailable for return to ratepayers or 2021 EE portfolio budget recovery offset.

Attachment 4, Table 8 Statewide Program Budgets Table

(Col E)*(IOU 'Electric Proportional Share' from INPUT TABLE) + [(1-Col E)*(IOU 'Gas Proportional Share' from INPUT TABLE)]

		Col A	Col B	Col C	Col D	Col E	Col F	Col G	Col H	Coll	Col A * Col F	Col A * Col G	Col A * Col H	Col A * Col I	Col B * Col F	Col B * Col G	Col B * Col H	Col B * Col I	Col C * Col F	Col C * Col G	Col C * Col H	Col C * Col I
		2021 Program	2022 Program	Maximum Annual Program Budget	Expected or			tric & Gas) Proport et share. Actual fund			2021 Progam Forecast by IOU**				2022 Progam Bu	idget by IOU**		Maximum Annual Budget After Launch				
Statewide Program*	Lead IOU	Budget (Total for all contributing IOUs)**	Budget (Total for all contributing IOUs)**	(Total for all contributing IOUs)****	Actual Launch Date (MM/YYYY)***	Percent Electric	PG&E	SDG&E	SCE	SCG	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		\$ 1,232,332	\$2,112,569	\$ 2,112,569	Jul-2021	80%	45.60%	13.96%	32.08%	8.36%	\$ 561,943	\$ 172,034	\$ 395,332	\$ 103,023	\$ 963,331	\$ 294,915	\$ 677,712	\$ 176,611	\$ 963,331	\$ 294,915	\$ 677,712	\$ 176,611
Res New Construction		\$ 5,292,000	\$8,862,000	\$ 12,000,000	Jun-2021	80%	45.60%	13.96%	32.08%	8.36%	\$ 2,413,152	\$ 738,763	\$ 1,697,674	\$ 442,411	\$ 4,041,072	\$ 1,237,135	\$ 2,842,930	\$ 740,863	\$ 5,472,000	\$ 1,675,200	\$ 3,849,600	\$ 1,003,200
NonRes New Construction	PG&E	\$ 2,000,000	\$14,000,000	\$ 20,000,000	Jun-2021	80%	45.60%	13.96%	32.08%	8.36%	\$ 912,000	\$ 279,200	\$ 641,600	\$ 167,200	\$ 6,384,000	\$ 1,954,400	\$ 4,491,200	\$ 1,170,400	\$ 9,120,000	\$ 2,792,000	\$ 6,416,000	\$ 1,672,000
Codes and Standards Advocacy		\$ 13,155,000	\$13,155,000	\$ 13,155,000	Feb-2020	80%	45.60%	13.96%	32.08%	8.36%	\$ 5,998,680	\$ 1,836,438	\$ 4,220,124	\$ 1,099,758	\$ 5,998,680	\$ 1,836,438	\$ 4,220,124	\$ 1,099,758	\$ 5,998,680	\$ 1,836,438	\$ 4,220,124	\$ 1,099,758
Institutional Partnerships, DGS & Dept of Corrections		\$ 416,667	\$2,500,000	\$ 5,000,000	Aug-2021	80%	45.60%	13.96%	32.08%	8.36%	\$ 190,000	\$ 58,167	\$ 133,667	\$ 34,833	\$ 1,140,000	\$ 349,000	\$ 802,000	\$ 209,000	\$ 2,280,000	\$ 698,000	\$ 1,604,000	\$ 418,000
WE&T Career Connections		\$ 583,333	\$1,000,000	\$ 1,000,000	Jul-2021	80%	45.60%	13.96%	32.08%	8.36%	\$ 266,000	\$ 81,433	\$ 187,133	\$ 48,767	\$ 456,000	\$ 139,600	\$ 320,800	\$ 83,600	\$ 456,000	\$ 139,600	\$ 320,800	\$ 83,600
Water/wastewater pumping		\$ -	\$1,846,970	\$ 5,300,000	Sep-2022	80%	45.60%	13.96%	32.08%	8.36%	\$ -	\$ -	\$ -	\$ -	\$ 842,218	\$ 257,837	\$ 592,508	\$ 154,407	\$ 2,416,800	\$ 739,880	\$ 1,700,240	\$ 443,080
Lighting (Upstream)	SCE	\$ 7,488,000	\$12,000,000	\$ 12,000,000	Jul-2021	100%	44.40%	15.50%	40.10%	0.00%	\$ 3,324,672	\$ 1,160,640	\$ 3,002,688	\$ -	\$ 5,328,000	\$ 1,860,000	\$ 4,812,000	\$ -	\$ 5,328,000	\$ 1,860,000	\$ 4,812,000	\$ -
ETP, electric	JCL	\$ -	\$14,032,875	\$ 17,897,000	Apr-2022	100%	44.40%	15.50%	40.10%	0.00%	\$ -	\$ -	\$ -	\$ -	\$ 6,230,597	\$ 2,175,096	\$ 5,627,183	\$ -	\$ 7,946,268	\$ 2,774,035	\$ 7,176,697	
Institutional Partnerships, UC/CSU/CCC		\$ -	\$1,393,939	\$ 4,000,000	Sep-2022	80%	45.60%	13.96%	32.08%	8.36%	\$ -	\$ -	\$ -	\$ -	\$ 635,636	\$ 194,594	\$ 447,176	\$ 116,533	\$ 1,824,000	\$ 558,400	\$ 1,283,200	\$ 334,400
ETP, gas *****		\$1,750,000	\$3,000,000	.,,	Aug-2021	0%	50.40%	7.80%	0.00%	41.80%	\$ 882,000	\$ 136,500		\$ 731,500	\$ 1,512,000	\$ 234,000	\$ -	\$ 1,254,000	\$ 1,512,000	\$ 234,000	\$ -	\$ 1,254,000
Food Service POS	SCG	\$11,745,071	\$15,379,818	\$ 19,500,000	Apr-2021	40%	48.00%	10.88%	16.04%	25.08%	\$ 5,637,634	\$ 1,277,864	\$ 1,883,909	1 ,,	\$ 7,382,313	\$ 1,673,324	\$ 2,466,923	\$ 3,857,258	\$ 9,360,000	. , ,	\$ 3,127,800	, , , ,
Midstream Comm Water Heating		\$12,434,469	\$12,434,469	\$ 12,434,469	Apr-2021	40%	48.00%	10.88%	16.04%	25.08%	\$ 5,968,545	\$ 1,352,870	\$ 1,994,489	\$ 3,118,565	\$ 5,968,545	\$ 1,352,870	\$ 1,994,489	\$ 3,118,565		\$ 1,352,870		
Res HVAC QI/QM		\$ -	\$0	\$ 6,900,000	Apr-2023	80%	45.60%	13.96%	32.08%	8.36%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,146,400	\$ 963,240	\$ 2,213,520	\$ 576,840
Plug Load and Appliance	SDG&E	\$ 7,250,000	\$29,356,559	\$29,356,559	Sep-2021	80%	45.60%	13.96%	32.08%	8.36%	\$ 3,306,000	\$ 1,012,100	\$ 2,325,800	\$ 606,100	\$ 13,386,591	\$ 4,098,176	\$ 9,417,584	\$ 2,454,208	\$ 13,386,591		\$ 9,417,584	
Upstream HVAC (Comm + Res)		\$ 10,341,930	\$12,652,339	\$ 12,652,339	Mar-2021	80%	45.60%	13.96%	32.08%	8.36%	\$ 4,715,920	\$ 1,443,733	\$ 3,317,691	\$ 864,585	\$ 5,769,467	\$ 1,766,267	\$ 4,058,870	\$ 1,057,736	\$ 5,769,467	\$ 1,766,267	\$ 4,058,870	\$ 1,057,736
Total		\$ 73,688,802	\$ 143,726,538	\$ 176,307,936							\$ 34,176,547	\$ 9,549,742	\$ 19,800,107	\$10,162,406	\$ 66,038,450	\$ 19,423,651	\$ 42,771,498	\$ 15,492,939	\$ 80,948,082	\$ 23,904,620	\$ 52,872,637	\$ 18,582,597

^{*}The numbers in this table are accurate as of August 14, 2020, and are reflected in all of PG&E's 2021 ABAL materials, including its advice letter and CEDARS filing submission. Any changes made by a SW lead after August 14, 2020 are not reflected in this table.

BP Decision (D.18-05-041): OP 23. The 25 percent requirement for statewide 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.

IOU	Percent PPP Electric	Percent PPP Gas	Electric Proportional Share	Gas Proportion al 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%

^{**}The budget is proportional to the anticipated launch date of the program.

^{***}Launch date assumes that the signed contracts filed via AL are approved by ED in 90-days, where applicable.

^{****}Maximum annual program budget subject to change with consensus across IOUs

	2021 Energy Efficiency C	Cap A	and Target Exp	enc	diture Projectio	ns				
					Expenditures			Cap & 7	Target Perfo	rmance
Line	Budget Category	(incli old contr	Non-Third Party lualifying Costs uding PA costs and d-definition 3P/GP acts that don't meet he new definition)	Th	ird Party Qualifying Costs ² (including SW)		Total Portfolio	Percent of Budget	Cap %	Target %
1	Administrative Costs	\$	19,263,839	\$	6,227,857	\$	25,491,696			
2	IOU ¹	\$	14,245,702	\$	-	\$	14,245,702	5.8%	10.0%	
3	Third Party & Partnership ²	\$	1,585,961	\$	5,834,045	\$	7,420,006			10.0%
4	Target Exempt Programs ³	\$	3,432,176	\$	393,812	\$	3,825,989			
5	Marketing and Outreach Costs ⁴	\$	13,981,115	\$	4,000,178	\$	17,981,293			
6	Marketing & Outreach	\$	7,121,903	\$	4,000,178	\$	11,122,081	4.5%		6.0%
7	Statewide Marketing & Outreach 5	\$	6,859,212	\$	-	\$	6,859,212			
8	Direct Implementation Costs	\$	107,353,040	\$	84,482,112	\$	191,835,153			
9	Direct Implementation (Incentives and Rebates)	\$	43,576,572	\$	31,426,347	\$	75,002,919			
10	Direct Implementation (Non Incentives and Non Rebates)	\$	37,461,929	\$	48,584,573	\$	86,046,502	35.1%		20.0%
11	Direct Implementation Target Exempt Programs ³	\$	26,314,540	\$	4,471,192	\$	30,785,732			
12	EM&V Costs (Investor Owned Utilities & Energy Division) ^{6,7}	\$	9,518,705	\$	-	\$	9,518,705	4.0%	4.0%	
13	Total ⁸	\$	150,116,700	\$	94,710,147	\$	244,826,847			
14	2021 Proposed Budget ⁹	\$	143,257,488	\$	94,710,147	\$	237,967,635			
15	Third-Party Implementer Contracts (as defined per D.16-08-019, OP 10) $^{\rm 10}$	\$	-	\$	94,710,147	\$	94,710,147			

- 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, Third-Party Public LGPs, and Codes & Standards programs (excluding Building Codes Advocacy, Appliance Standards Advocacy and National Standards Advocacy).

 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. The 2019-2021 Statewide ME&O budget is authorized in D.19-01-005. The amount in Line 7 represents the portion allocated to EE.
- EM&V costs include only PG&E's IOU EM&V budget.
- 7. The EM&V percentage is based on PG&E's total programs budget of \$237,967,635, which excludes SWME&O, BayREN, MCE and 3C-REN. This is the Total in line 13, minus SWME&O in line 7.
- 8. As directed in the Energy Efficiency Policy Manual Version 6 April 2020, Appendix C, this total includes SW ME&O and excludes BayREN, MCE, and 3C-REN budgets and is the denominator used to calculate the Admin, Marketing, and Direct Implementation Non-Incentives percentages.
- 9. PG&E's 2021 Proposed Budget of \$237,967,635 excludes SWME&O budget of \$6,859,212 and excludes BayREN, MCE and 3C-REN budgets.
- 10. PG&E'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. This 2021 forecasted total is not used to calculate the third-party

Attachment -	l, Table 19
PA Name: Pa	wific Gas and Electric

PA Name: Budget Yes	t 4, Table 19 Pacific Gas and l or: 2021	Electric							Baseline			A	ctual			Short Term Target					
index	PA AZAF	age Order Co	de Measureme	t Metric Type	Metric/ Indicator Business Plan Att A. Description	Metric	Sector	Year	Numerator	Denominator	2016	2017	2018	2019	2018	2019	2020	Constitive	Long Term Target (2020-2020) Cumulative	Methodology Calculated using CIT, and reported by sector consistent with primary sector grouping in COSM-6 And CASM-6 sector consistent cells and Southerds. Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at these are not Good equivalent. New Good Section COSM-6 or NOT and PRAID at the Section COSM-6 or NOT at the Section COSM-6 or NOT at the Section COSM-6 or NOT at the Section COSM-6	Proxy Explanation FLAG
0	AG	a PLI 0	G MTC02eq	NEW: Energy Savings	Metric Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an ann basis	co2-equivalent of net annual kWh savings	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	563,033	569,554	137,822	127,572	433,280	475,653	474,409	508,341	520,442		
1	PGBS AO	2 PL1 S	51 First year annua gross	ISS: Snergy Savings	Metric First year annual and filecycle on onto (pre-evaluation) gas, electric, as demand cavings (proce and net)	d First year annual KW gross	Portfolio Level (PL)—All Sectors	2016	N/A	N/A	292,190	320,131	258,184	270,852	224,595	244,036	255,705	203,778	320,720	Frontisis George (solicity) metal colors and Contentis, CAL by your legislat George (sevent) (\$40,000,000) and the colors (may (\$100,000,000)) and colored with low portificio solicity are reported in the remain report. 2006 arbitrarement sign with colors are grouped or 2005 colors of the remain report. 2006 arbitrarement sign with Colors are grouped or 2005 colors of the remain report. 2006 arbitrarement sign with Taylors are algorithm of Color Colors of the Color of the 2008 are 1000 arbitrarement sign of the 2008 arbitrarement sign of the 2008 arbitrarement sign of colors of colors of the 2008 arbitrarement sign of colors of colo	
2	PGBS AO	2 PL1 S	First year annual net	W St: Energy Savings	Metric First year annual and lifecycle events [pre-evaluation] gas, electric, as demand savings (gross and ret)	d First year annual kelf net	Portfolio Level (PL)—All Sectors	2016	N/A	N/A	260,502	292,712	342,670	253,848	203,694	221,115	234,078	279,688	286,884	Frontion Energy and Long contact class and streetings. Utility is required proprieting allegals of the control and completely control and complete profition using an execution of the animal report. 2012 all showevers the given control and control and cont	
2	PGBS AG	2 PL1 S	First year and kitch gross	al SS: Snergy Savings	Metric First year annual and file-cycle ex-anne (pre-evaluation) gas, electric, as demand savings (gross and net)	d First year annual kitch gross	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	1,405,109,178	1,486,933,623	1,860,921,779	1,222,064,221	1,098,820,360	1,204,324,338	1,197,455,793	1,285,232,003	1,312,081,001	Particle Group (coloning colonic Coloning of Colonic Coloning Colonic Coloning Colonic Coloning Colonic Coloning Colonic Colon	
4	PGBS AO	2 PL1 S	First year ann kWh net	al SS: Snergy Savings	Metric First year annual and filecycle evanne (pre-evaluation) gas, electric, as demand cavings (gross and net)	d Anst year annual kitth net	Portfolio Level (PL)—All Sectors	2016	N/A	N/A	1,277,130,842	1,349,224,214	1,387,667,663	1,356,667,831	982,811,096	1,078,934,997	1,076,104,441	1,152,945,111	1,180,520,489	Freshis Grange (miles of color and of classers), CRI, Nay, years beginned freshis (All Angell, All Angell, Angell	
s	PGBS AO	2 PL1 S	First year ann Therm grou	al SS: Energy Savings	Metric First year annual and filecycle ex-site [pre-evaluation] gas, electric, as demand cavings (gross and net)	d First year annual Therm gross	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	23,593,224	33,340,605	22,248,177	22,353,288	22,745,548	35,932,646	37,726,503	47,690,586		Further Congress (Congress) and Congress (Congress) an	
6	PGBS AO	2 PL1 S	First year and Therm net	al SS: Snergy Savings	Metric First year annual and filecycle ex-stree [pre-evaluation] gas, electric, as demand cavings (gross and net)	d Ainst year annual Therm net	Portfolio Level (PL)—All Sectors	2016	N/A	N/A	21,221,696	28,046,992	29,965,470	27,708,207	30,899,341	33,581,873	35,787,781	41,979,275	43,920,087	Frontisch Gering in sinker die der der der der Stende (n. St., St., St., St., St., St., St., St.	
7	PGBS AO	2 PL1 S	Lifecycle evant grass	KW SS: Snergy Savings	Metric PLLGS. First year annual and lifecycle on area (pre-evaluation) gas, do and demand savings (gross and net)	COSC, Lifecycle ewante 1000 grass.	Portfolio Level (PL)—All Sectors	2016	N/A	N/A	2,914,361	4,128,765	4,665,515	3,362,939	2,240,549	2,433,967	2,550,452	3,029,944	3,198,918	Further Company and Company Co	
8	PGBS AO	2 PLS S	Lifecycle evant net	kW SS: Energy Savings	Metric First year annual and Mincycle as some (pre-evaluation) gas, electric, as demand caulings (gross and net)	d Lifecycle awante KW net	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	2,620,800	3,879,634	4,546,856	3,092,775	1,997,206	2,169,995	2,273,867	2,701,348	2,851,997	Frontillo Engrey Lindon on March and extra desired, ILL, they have beguest to prepare and pullpaid, Indian Count Sorang MEVI, Aller and consistence and regulatory exprorted partition energy source, 30% inflamments align each source of the County of partition energy source, 30% inflamments align each source of the 20% inflamments and county of the Cou	
۰	PGBS AD	2 PL1 S	Lifecycle ex-as kWh gross	SE: Energy Savings	Metric First year annual and Miscycle ex-unite (pre-evaluation) gas, electric, as demand causings (proc. and net)	d Mecycle an ante XXXII gross	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	14,130,908,291	16,136,479,779	16,109,235,039	15,424,505,278	11,042,742,599	12,103,040,903	12,034,014,410	12,916,136,707	13,185,967,902	Annue Traden. 1. The property of the Price	
10	PGBS AO	2 PL1 S	Lifecycle ex-as kitth net	55: Energy Savings	Metric First year annual and Minycline we wise (pre-evaluation) gas, electric, as demand swings (press and net)	d Lifecycle ex-ante XXVh net	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	12,720,204,439	14,579,998,771	15,766,703,696	54,718,206,550	10)029,841,858	10,992,869,893	10,930,169,001	11,721,275,857	11,976,448,041	Fresh Europy (and position from a Streem, for ACL by the hyper freed per book (height of ACL book (height of ACL by the hyper freed per book (height of ACL book (he	
11	PGBS AO	2 PL1 S	Lifecycle ec-a Therm gross	26 SS: Snergy Savings	Metric First year annual and lifecycle as onto (pre-evaluation) gas, electric, as demand storage (gress and reef)	d Lifecycle avante Therm gross	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	275,491,153	406,818,446	362,416,433	224,309,824	382,210,364	419,436,112	440,363,845	556,684,689	585,146,530	Further Congress (Congress) and Congress (Congress) (Co	
12	PGBS AO	2 PL1 S	Lifecycle ex-as Therm net	SE: Snergy Savings	Metric First year annual and Mitopole so wate (pre-evaluation) gas, electric, as determined swings (gross and net)	d Lifecycle awante Therm net	Portfolio Level (PL)—All Sectors	2016	N/A	N/A	343,906,851	342,579,552	321,002,504	274,481,549	343,785,353	277,268,758	296,092,554	500,719,364	526,229,728	Frontillo Group, and control case or Efficience, and Ext. By even frequent frequency specifies, in the Control Group (Coll.), which considered and requiratory specified of profiline every savegue, this inclinations single seek seek and provided and profiline every savegue, the control contr	
13	PGBS AO	2 PL2 S	First year annua gross	VW S2: DAC Savings	Metric First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities	d First year annual KW gross in Disadvantaged Communities	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	28,388	21,120	14,757	15,312	21,821	23,709	24,844	29,514	31,160	Baseline data silgns with underlying savings data reported in the 2006 Annual Report. Targets align with the movement of ownall portfolio savings goals. DAC definition adopted in D.18-05-041	
14	PG&S AO			SR: DAC Savings	Metric First year annual and lifecycle or onte (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities		Portfolia Level (PL) - All Sectors	2016	N/A	N/A	19,509	13,440	10,421	10,030	15,254	96,559	17,510	20,946	22,233	Baseline data aligns with underlying tavings data reported in the 2006 Annual Report. Turgets align with the movement of overall portfolio savings goals. DAC definition adopted in 0.18 05-041	
15	PGBS AD	2 PL2 S	First year and kitch gross	al SR: DAC Savings	Metric First year annual and lifecycle ex onse (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities	d First year annual KWh gross in Disadvantaged Communities	Portfolio Level (PS)- All Sectors	2016	N/A	N/A	104,888,728	93,840,000	78,056,148	69,622,484	81,866,516	202,268,98	89,324,227	95,871,901	97,874,696	Baseline data silges with underlying savings data reported in the 2656 Annual Report. Targets align with the movement of owesil portfolio savings goals.	
16	PG&S AO	2 PL2 S	First year ann KWh net		Metric First year annual and lifecycle ex-onte (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities	d First year annual KWh net in Disadvantaged Communities	Portfolia Level (PL) - All Sectors	2016	N/A	N/A	72,243,493	58,850,000	58,813,142	49,326,216	\$5,594,700	61,031,574	60,872,027	65,213,019		Razeline data silgns with underlying cavings data reported in the 2006 Annual Apport. Turgets align with the reoverners of ownels portions ravings goals.	
17	PGBS AC	2 PL2 S	First year and Them grou		Metric First year annual and lifecycle evante (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities		Portfolio Level (PL) - All Sectors	2016	N/A	N/A	1,190,084	2,640,000	2,914,208	5,600,820	1,651,635	1,812,498	1,902,923	2,405,597		Baseline data aligns with underlying swings data reported in the 2006 Annual Apport. Targets align with the resveneet of owned portfolio savings goals.	
18	PGBS AO	2 PL2 S	First year and Therm net		Metric First year annual and lifecycle ex-onte (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities		Portfolio Level (PL) – All Sectors	2016	N/A	N/A	833,222	1,190,000	2,621,066	3,312,030	1,213,205	1,318,534	1,405,146	1,648,244		Baseline data aligns with underlying savings data reported in the 2064 Annual legont. Targets align with the novement of owned portfolio savings gails. DAC definition adopted in D.SE-06-041	
19	PGBS AO	2 PL2 S	Lifecycle ex-anti		Metric First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities		Portfolio Level (PL) - All Sectors	2016	N/A	N/A	240,674	205,010	779,291,286	123,839	184,996	201,001	210,622	250,219		Stateline data aligns with underlying savings data reported in the 2006 Annual layout. Targets align with the novement of ownest portfolio savings goals. DAC definition adopted in 0.18-06-061	
20	PGBS AO	2 PL2 S	Lifecycle events net		Metric First year annual and lifecycle ex-one (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities	d Lifecycle avante KW net in Disadvantaged Communities	Portfolio Level (PL)- All Sectors	2016	N/A	N/A	164,624	132,130	616,661,200	82,857	124,976	135,789	142,288	169,038		Associated and a sugar with a moderning control or source processors between greater. Baseline data sulliges with the necessors of overall portfolio source greate. DAC definition adopted in 0.18-05-061 Bayout. Targets sligh with the necessors of overall portfolio source greate.	
21	PGBS AC	2 PL2 S	Lifecycle ex-as kWh gross		Metric First year annual and lifecycle ex onto (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities		Portfolio Level (PL)- All Sectors	2016	N/A	N/A	970,453,492	1,044,750,000	140,213	693,583,096	758,372,161	831,187,776	826,647,316	897,027,830		Standard data siligan with underlying using data apported in the 266 Annual Baseline data siligan with underlying to using data apported in the 266 Annual Baseline data siligan with the neverent of overall portrible savinger galait. DAC definition adopted in 0.18-06-041	
22			Lifecycle ex-as kitch net		Metric First year annual and lifecycle ex-one (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities		Portfolio Level (PL) - All Sectors	2016	N/A	N/A	657,271,636	652,530,000	105,151	496,721,197	518,256,652	568,017,414	564,777,877	606,177,612		resport. Tages asign with non-newment or owness promoses strange galar. Baseline data saliges with numberilying usuings data apported in their 2666 Annual Report. Tages saliges with the newment or downed portrible savinger galar. Baseline data saliges with the newment or downed portrible savinger galar.	
22		2 942 5			First year annual and lifecucie or onto (one-evaluation) yas, electric, as		Portfolio Level (PL)- All Sectors	2016	N/A	N/A	13,085,317	26,320,000	27,512,356	52,217,493	18,160,209	19,928,945	20,923,299	26,450,128	27,802,454	Aspect. Target sidey with the necessaries of evental particles universe galaxies. Bestine data sides with undersings taxing data reported in the 2664 Annual Aspect. Targets sidey with the necessaries of events particles saving a galax. Discretely with the necessaries of events particles saving a galax.	
24		2 942 5	rimii pus		Metric demand cavings (gross and net) in disadvantaged communities First year annual and lifecycle ex-ente (pre-evaluation) gas, electric, as demand savings (gross and net) in disadvantaged communities	Communities	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	8,536,556	15,230,000	17,966,609	30,498,092	12,032,229	13,204,123	13,862,941	17,524,798	18,420.795	Algor. Target allign with the neverence of ownsk portfolio surving gasts. Blassline data aligns with underlying usings data apported in the 266 Annual Algor. Targets allign with the neverence of ownsk portfolio survings gasts. Data definition adopted in 0.18 65-041 Blassline data aligns with the neverence of ownsk portfolio survings gasts.	
s			Therm net First year annu- gross				Portfolio Level (PL)- All Sectors	2016	N/A	N/A	51,180		2,609	2,682	29,340					Indicates the second sec	not currently collect whether a commercial culturer revert their facility men' y privary plaques in cher than falight. As a result, this metic ageography and business or certain for commercial customers and they and iscome and geography and shouling type orbins for recidential eller all required softermation to track in Placetamers and all update when they could be a visible. Given and ITM contents are not included, PGAE the merics on society and preference will consequence would all data.
36	PGBS AO	2 93 5	First year annual net	WW Sit: Hard to reach marks	First year annual and filescole on anter (per evaluation) gas, electric, with the annual search of the search markets. Medical developing (gross and red) in hard-on-reach markets.	d First year annual KW net in Hand-to-Reach Markets	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	35,092	22,660	2,082	2,822	27,439	29,786	31,532	27,556	39,992	Baseline data slight with underlying using data reported in the 26th Annual Apport. Turgets align with the movement of overall portfolio savings gain. 178 definition adopted in 0.18-05-061	not comerfly callest whether a consensation contenter nexts their facility ment's prizery incepage is other than Galpin. As a result, this nexts specifying year of the content of commercial contents and separately seed in contents of contents of commercial contents and sell, as of contents and paginging and failurating type or other for residence sellent all required information is small kTRR contents and will update whether disease is solvation. Executed in TRR contents are one challends, PGER KTRR metrics on saving and participation will receive once all data is.
27	PGBS AO	2 913 5	First year and kitch groot	al S4: Hard to reach marks	First year annual and filescale as a trip (see evaluation) gas, effects, or demand savings (great and reg) in hard-to-reach markets.	d First year annual KWh gross in Hand-to-Reach Markets	Portfolio Level (PL)—All Sectors	2016	ngra	N/A	188,154,982	164,790,000	16,158,316	20,784,126	147,025,897	161,153,648	160,234,551	171,600,117	175,572,896	HTR definition adopted in D.18-05-061	not convertly callect whether a convention content ment their facility early prises by language at other than Egilds, has a result, this metic appropriyed and have seen control the conventioners and an experience of the control of the conventioners and why and notioners and penatryly with housing type of child after medicinal callect all required information to trads HTR continuemen and will update members done as an admitted information to trads HTR continuemen and will update them the date in a solid first facilities are not challed, PGEL HTR metrics on caveign and participation will increase once all date is.

Att	achmen	t 4, Tabl	c 19	
PΑ	Name	Parific (los sed	Electric

ment 4, Table 19 me: Pacific Gas and Elec t Year: 2021	ectric											ı		ictual							1		
PA ANA Page	AZA p Order	Method Code M	Units of leasurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Year	Baseline Numerator	Denominator	2016	2017	2018	2019	2018	Short Term Target	2020	Mid Term Target (2023-2025) Completion	Long Twen Target (2038-2020) Cumulative	Methodology	Key Definitions	Proxy Explanation
																							PG&E does not currently collect whether a commercial customer nexts their facil or if a customer's primary language is other than English. As a result, this metric
PGBS A02		S4 Fir	st vear annual			First year annual and lifecucie ex-onte (pre-evaluation) gas, electric, and	First year annual KWh net in Hard-to-Reach		2016	N/A	N/A	129,080,994	105,290,000	12,638,604	18,739,736	99,333,780	109,048,109	108,769,039	116,519,301	119,316,482	Baseline data aligns with underlying savings data reported in the 2006 Annual		or if a customer's primary language is other than English. As a result, this metric includes the prography and business size otheris for commercial customers and the grography and income and geography and housing type criteria for residenti customers.
PGBS A02	PLS	54	st year annual kWh net	S4: Hard to reach market	Metric	First year annual and lifecycle ex-onse (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Markets	Portfolio Level (PL)- All Sectors	2016	N/A	N/A	129,090,994	105,290,000	12,638,604	19,729,736	99,333,780	109,048,309	108,763,039	116,519,301	119,316,482	Baseline data aligns with underlying savings data reported in the 2006 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in 0.18-05-041	
																							PGBE will collect all required information to track HTR customers and will update the metric when this data is available. Since all HTR citeria are not included, PGB anticipates HTR metrics on savingt and participation will increase once all data in available.
																							mailable. MGB Gales not currently collect whether a commercial customer neets their facilities or if a customer's primary language is other than forgish. As a result, this mestic include its the geography and business size orthant for commercial customer than the geography and income and geography and housing type criteria for recidential customers.
																							includes the geography and business size criteria for commercial customers and the geography and income and geography and housing type criteria for residenti
PGBS A02	PL3	S4 Fir	st year annual Therm gross	S4: Hard to reach market	Metric	First year annual and lifecycle evente (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	N/A	N/A	1,538,151	5,570,000	(4,683)	(60,085)	2,134,694	2,342,605	2,459,490	3,109,157	3,268,120	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 0.18-05-041	
																							PGBE will collect all required information to track HTR customers and will update the metric when this data is available. Since all HTR criteria are not included, PGB anticipates HTR metrics on savings and participation will increase once all data in
					+																	-	anticipates HTK metrics on cavings and participation will increase once as each is available. PGEE does not currently collect whether a commercial customer rents their facility.
																							mailable. 764 days not convertly called whether a commercial customer next their both of 764 days not convertly called whether a commercial customer's primary language is other than English. As a result, this metric value is the geography and business size refrised for commercial customers and the peccapity and solution and geography and housing type critical for residential customers.
PGBS A02	PLS	S4 Fir	st year annual Therm net	S4: Hard to reach market	. 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	Portfolio Level (PLI- All Sectors	2016	N/A	N/A	1,117,271	3,260,000	(6,965)	(54,742)	1,626,793	1,768,029	1,894,167	2,210,139	2,312,319	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the reoverment of overall portfolio savings goals.	HTR definition adopted in D.18-05-041	Castalines.
			Item net			demand cavings (gross and net) in hard-to-reach manuels.	Manes														Report. Largets augn with the movement of overall portions cavings goals.		PG&E will callect all required information to track HTR customers and will update the metric when this data is available. Since all HTR criteria are not included, PG& anticipates HTR metrics on cavings and participation will increase once all data in available.
																							anticipates HTR metrics on savings and participation will increase once all data is available.
																							mailable. **PG&G does not currently collect whether a commercial customer neets their facilities or if a customer's primary language is other than fosglish. As a result, this metric include the peopraphy and business size orthost for commercial customers and the peography and income and geography and business size rothost for collections.
PGBS A02		Ster	uria eu anta kW			First year annual and lifecycle evante (pre-evaluation) gas, electric, and	(Manuria ay anta VIV anno in Gantier, Beart)		2016	N/A	N/A	410,278	568,830	135,705,081	23,297	315,364	342,648	259,047	426,549		Breakon data silent with underlying regimes data reported in the 2016 income		the geography and income and geography and housing type criteria for residenti- customers
PGSA AU	PLI	54	Bloss	S4: Hard to reach market	Metric	demand savings (gross and net) in hard-to-reach markets	Lifecycle av ante KW gross in Hard-to-Reach Markets	Portfolio Level (PL)- All Sectors	2016	N/A	N/A	410,278	368,820	125,705,081	24,897	23,264	342,648	259,047	434,549	450,417	Baseline data aligns with underlying savings data reported in the 2006 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in D.18-05-041	PG&E will collect all required information to track HTR customers and will update the metric when this data is available. Since all HTR criteria are not included, PG&
																							available. PG&E does not currently collect whether a commercial customer nexts their facili or if a customer's primary language is other than langlish. As a result, this metric includes the prography and business size otheria for commercial customers and
																							includes the geography and business size criterius for commercial customers and the geography and income and geography and housing type criteria for residenti
PGBS A02	PLB	S4 Lifec	ycle ex-ante kW net	S4: Hard to reach market	Metric	First year annual and lifecycle eviante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets.	Lifecycle av ante KW net in Hard-to-Reach Markets	Portfolio Level (PS) - All Sectors	2016	N/A	N/A	273,992	419,520	104,602,330	20,066	208,005	226,001	236,818	281,340	297,090	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 0.18-05-041	customers.
																							PG&E will collect all required information to track HTR customers and will updat the metric when this data is available. Since all HTR criteria are not included, PGI
																							PG&E will callect all required information to track HTR customers and will update metric when this data is available. Since all HTR criteria are not included, PG activates HTR metrics on saving and participation will increase once all data is validable, and the properties of the pr
																							or if a customer's primary language is other than English. As a result, this metri includes the geography and business size criteria for commercial customers and
PGBS A02	PL3	54 128	ecycle ex-ante kWh gross	S4: Hard to reach market	Metric	First year annual and lifecycle evente (pre-evaluation) gas, electric, and	Lifecycle ex-ante KWh gross in Hand-to-Reach	Portfolio Level (PU- All Sectors	2016	N/A	N/A	1,684,734,581	1,768,050,000	20,102	202,828,009	1,316,555,420	1,442,965,377	1,434,735,805	1,539,905,283	1,572,074,396	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.18-05-011	includes the geography and business size criteria for commercial customers and the geography and income and geography and housing type criteria for resident customers.
			kWh gross	react market	America .	demand savings (gross and net) in hard-to-reach markets	Markets	and the second section			'										Report. Targets align with the movement of overall portfolio savings goals.		PGBE will collect all required information to track HTR customers and will updath the metric when this data is available. Since all HTR criteria are not included, PC anticipates HTR metrics on savings and participation will increase once all data
							1																over remute when this data is available. Since all HTR offsets are not included, PC anticipates HTR metrics on savings and participation will increase once all data available.
																							available. PGEs does not currently collect whether a commercial customer neets their fa or if a customer's primary language is other than English. As a result, this meti includes the geography and business size criteria for commercial customers an
																							includes the geography and business size criteria for commercial customers an the geography and income and geography and housing type criteria for residen
PGBS ACC	PL3	54 128	ecycle ex-ante kitch net	S4: Hard to reach market	Metric	First year annual and lifecycle ex-onte (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	unecycle av ante kWh net in Hard-to-Reach Markets	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	1,127,229,250	1,110,890,000	14,629	183,371,201	888,816,778	974,157,120	968,601,273	1,039,602,003	1,061,319,621	Raceline data aligns with underlying savings data reported in the 2006 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in D.18-05-061	customers.
																							PG&E will collect all required information to track HTR customers and will up the metric when this data is available. Since all HTR criteria are not included, P anticipates HTR metrics on savings and participation will increase once all data
	+																						and Copiese in the metrics on using a loss participation will occusive only as data and a country of the country of the country of the country of the order of a country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the customers.
																							or if a customer's primary language is other than English. As a result, this metri includes the geography and business size criteria for commercial customers and
PGBE A02	PLS	54 12	ecycle ex-ante Therm gross	S4: Hard to reach market	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle awante Therm gross in Hard to-Reach Markets	Portfolio Level (PL) - All Sectors	2016	N/A	N/A	15,797,858	62,850,000	(199,416)	(444,945)	21,924,757	24,060,547	25,260,626	31,933,147	23,545,806	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 0.18-05-041	the geography and income and geography and housing type criteria for resident customers.
			nem gross			demand cavings (gross and net) in hard-od-reads manuses	Makes														Report. Largest stign with the indiversest of overall portions savings goals.		PGSE will collect all required information to track HTR customers and will upd the matrix when this data is waitable. Since all HTP collects are not included. If
																							the metric when this data is available. Since all HTR criteria are not included, Pl anticipates HTR metrics on savings and participation will increase once all data available.
																							manibble PGBE does not currently collect whether a commercial customer neets their far or if a customer's primary language is other than English. As a result, this meet includes the geography and business size criteria for commercial customers an
																							includes the geography and business size criteria for commercial customers an the geography and income and geography and housing type criteria for residen
PGBS A02	PL3	54 LX	ecycle ex-ante Therm net	S4: Hard to reach market	Metric	First year annual and lifecycle evente (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Markets	Portfolio Level (PL)- All Sectors	2016	N/A	N/A	10,439,141	36,410,000	(176,715)	(407,287)	14,713,911	16,146,991	16,952,643	21,430,636	22,526,328	Baseline data aligns with underlying savings data reported in the 2006 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in 0.18-05-041	CASTORNAS. DCSC sall collect all consisted information to track MTR customers and sall und
																							PGBE will collect all required information to track HTR customers and will updi the metric when this data is available. Since all HTR criteria are not included, Pd anticipates HTR metrics on savings and participation will increase once all data
																					Levelized costs are reported by sector consistent with primary sector groupings CSDARS PROGRAM specifications.	in	malishia
																					PAC cost per kWh or per therm or per kW is (PAC Cost x Silestric Benefits) Votes Benefits) Votes view kWh or (PAC Cost x Gas Benefits) Total Benefits), Videcycle Net Kerns or (PAC Cost x Silestric Benefits) Total Benefits), Lifecycle Net kW nesportively.		
PGBS A02	PL4	LC PAG	Levelized Cost (S/kW)	Cost per unit saved	Metric	Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (\$/kW)	Portfolio Level (PL)- All Sectors	2016	\$ 357,466,832	801,209	\$ 446.16	132	\$ 120.64	\$ 348.41	\$ 495.01	\$ 495.01	\$ 495.01	\$ 412.70	\$ 401.54		Levelized costs do not include codes and standards, per D.18-05-041.	
																					The adopted avoided cost methodology does not provide information to provide meaningful value for TRC or PAC Cost per VW		
																					Portfolio TRC and PAC excludes SSA, RayRSN, and MCS benefits and program cost SW ET program costs per 0.12-11-015 (p. 52), and Financing OBF Lean Pool amounts per 0.09-09-047 (p. 288).	26,	
																					Levelized costs are reported by sector consistent with primary sector groupings. CEDARG PROGRAM specifications.		
PGBS A02		LC PAG	Laurence Com						2016	\$ 357,666,832	4,248,268,766	\$ 0.084		\$ 0.055	\$ 0.062	\$ 0.042	5 0.042	\$ 0.082	\$ 0.078		PAC cost per kWh or per them or per kW is (PAC Cost x Siectric 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		
PGES AU	PLA	EL	Leveland Cost (S/kWh)	Cost per unit saved	Metric	Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (\$/kWh)	Portfolio Level (PL) - All Sectors	2016	3 257/840322	4,744,744	5 0.084		5 0.055	5 0.062	5 0082	5 0082	5 0.082	5 0.078	5 02%	Net therm or IPAC Cost x Electric Benefits/Total Benefits()Lifecycle Net kW respectively	Levelized costs do not include codes and standards, per D.18-05-061.	
																					Partfolio TRC and PAC encludes ESA, BayRSN, and MCE benefits and program on SWCT recommendate part 513.11.015 (n. 53) and Einspecial MSE intendion	26,	
	+				+	-	+	1						-						 	Portibilo TEC and PAC evolution ESA, BayREN, and MCE benefits and program on SW IT program come per 0.31-11-035 (p. 03), and Fileanching OBF Lean Pool woments are Dnog McP4Ts. 1888 Leavillated Costs are reported by sector consistent with primary sector groupings CEDMAS PROSENM specification.	in .	
							1														CEDARS PROGRAM specifications.		
		1.	Laurellee 1.				1														PAC cost per kWh or per them or per kW is (PAC Cost is Slectric Benefit;/Total Benefit;/Lifecycle Net kWh or (PAC Cost is Gas Benefit;/Total Benefit;/Lifecycle Net therm or (PAC Cost is Slectric Benefit;/Total Benefit;)\Lifecycle Net kW osspectively		
PGBS A02	PL4	LC PAG	Leveland Cost (\$/therm)	Cost per unit saved	Metric	Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (\$/sherm)	Portfolio Level (PL) - All Sectors	2016	\$ 45,113,354	88,206,891	\$ 0.51	0	\$ 0.53	\$ 0.64	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.47	\$ 0.46	respectively	Levelized costs do not include codes and standards, per D.18-05-061.	
							1														Portfolio TRC and PAC excludes ESA, BaykEN, and MCS benefits and program costs SW ET program costs per 0.12-11-015 (p. 52), and Financing OBF Lean Pool amounts per 0.09-09-087 (p. 288).	ns,	
							1														Levelized costs are reported by sector consistent with primary sector groupings CSDARG PROGRAM specifications.	in .	
							1														TRC cost per kWh or per therm or per kW is ITRC Cost x Electric Benefits/Total		
PGBS A02	84	LC TRO	Levelized Cost (S/kW)	Cost per unit saved	Metric	Leveland cost of energy efficiency per kWh, therm and kW (use both TRC	TRC Levelland Cost (S/VW)	Portfolio Level (PLI- All Sectors	2016	\$ 540,167,726	801,209	\$ 674.19	322	\$ 189.97	\$ 540.79	\$ 657.34	5 657.34	5 657.34	\$ 62161	\$ 696.77	Benefit;)*Lifecycle Net kWh or (TRC Cost x Gas Benefit;/Total Benefit;/Lifecycle Net therm or (TRC Cost x Dectric Benefit;/Total Benefit;)*Lifecycle Net kW	Levelized costs do not include codes and standards, ser 0.18-05-041.	
		-	(S/kW)	cost per unit saied	AMERIC	and PAC)	severates care (4) CM)	some seven [P1] - All Sections	224	. 100,007,726		474.19	244			. 100	war.di				The adopted avoided cost methodology does not provide information to provide meaningful value for TRC or PRC Cost per NW.	13 and 1 and	
							1														Portfolio TRC and PAC excludes ESA, Ray/REN, and MCE benefits and program on	26,	
							1														Portfolio TRC and PAC excludes CSA, RayASN, and MCS benefits and program on SW ST program costs per 0:13-11-015 (p. 52), and Financing OMF Lean Pool amounts per 0:09-09-047 (p. 288).		
	П							1			1			1					-		Levelized costs are reported by sector consistent with primary sector groupings CSDARS PROGRAM specifications.	in	
							1														TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total		
PGBE ACC	PL4	LC TRO	Leveland Cost (S/kWh)	Cost per unit saved	Metric	Leveloed cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost (S/Wth)	Portfolio Level (PL)- All Sectors	2016	\$ 540,167,726	4,248,268,766	\$ 0.12	0	\$ 0.09	\$ 0.10	\$ 0.12	\$ 0.12	\$ 0.12	\$ 0.12	\$ 0.11	Benefits)/Lifecycle Net kWh or (TRC Cost a Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost a Sectric Benefits/Total Benefits)/Lifecycle Net kW.	Levelized costs do not include codes and standards, per 0.18-06-041.	
							1															ms,	
																					Portfolio TRC and PAC excludes ESA, BayRIN, and MCS benefits and program costs SW ET program costs per 0.12-11-015 (p. 52), and Financing OBF Lean Pool amounts per 0.09-09-087 (p. 268).		
	ΙП						1	1													Levelized costs are reported by sector consistent with primary sector groupings CSDARS PROGRAM specifications.	in .	
PGBS A02							1														TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total		
PGBE ACC	PL4	LC TRO	Levelized Cost (\$/therm)	Cost per unit saved	Metric	Leveloed cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost (S/therm)	Portfolio Level (PL) - All Sectors	2016	\$ 68,170,738	88,206,891	\$ 0.77	0.75	\$ 0.83	\$ 0.99	\$ 0.75	\$ 0.25	\$ 0.75	\$ 071		Benefits) Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits) Lifecycle Net therm or (TRC Cost x Bectric Benefits/Total Benefits) Lifecycle Net XW	Levelized costs do not include codes and standards, per D.18-05-061.	
							1														Portfolio TRC and PAC encludes ESA, BayREN, and MCE benefits and program on	m,	
PGBS A02	ш																				Portfolio TRC and PAC wadvaler CSA, RayAEN, and MCE benefits and program on SW ET program costs per 0.13-11-015 (p. S2), and Financing OBF Lean Pool amounts per 0.09-09-047 (p. 288).		
PGBE ACC	RSF1	Si First	year annual VW gross	S1: Energy Savings	Metric	First year annual and lifecycle evante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual KW gross	Residential (RSF)	2016	N/A	N/A	39,900	19,610	28,176	29,987	32,437	44,639	42,416	45,472	47,538	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopt	ed Single family savings are based on dwelling type, and includes R2N of the savin from Residential Energy Advisor based on the portion of Home Energy Reports years to visible-basily outborners	
PGBS A02	RSF1		year annual VW net	S1: Energy Savings		First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers		Residential (RSF)	2016	N/A	N/A	34,733	13,701	24,926	38,291	30,042	41,301	29,926	42,728	44.874	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopt	and Single family savings are based on dwelling type, and includes 82% of the savings	e .
	_	_			_	demand savings (gross and net) for Single Family Customers			2016												goals in D.17-09-025 and the 2018 Potential and Goals Study.	from Residental Energy Advisor based on the portion of Home Energy Reports used to sink-banky outstances. Single family savings are based on desting type, and includes SENs of the sub- tion Residental Energy Advisor based on the portion of Home Energy Reports used to single-family outstances.	8
	RSF1		st year annual kWh gross			First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers		Residential (RSF)		N/A	N/A.	150,787,255	175,929,564	194,294,084		152,753,524	213,638,729	208,749,714	236,369,990	260,973,932	goals in D.17-09-025 and the 2018 Potential and Goals Study.	from Residential Energy Advisor based on the portion of Home Energy Reports sent to single-family outcomers.	
PGBS A02	RSF1	S1 Fir	st year annual kWh net	SS: Snergy Savings	Metric	First year annual and lifecycle eviente (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual kWh net	Residential (RSF)	2016	N/A	N/A	542,699,079	157,113,032	189,496,811	216,718,772	143,429,942	199,382,064	196,891,387	217,644,942	236,758,824	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopt goals in 0.17-09-025 and the 2018 Potential and Goals Study.	and to sink-family outstanding type, and includes \$21% of the saving thomas are too sink-family outstanders. Single family savings are based on deelling type, and includes \$21% of the saving thom Residential Energy Advisor based on the portion of Home Energy Report seet to sink-family outstanders.	
							1															sect to unate-tamily customers.	

Attachment 4, Table 19	
PA Name: Parille Gos and Electric	

PA Name Reduct V	nt 4, Table 19 : Pacific Gas and I ear: 2021	Electric							Raseline		ı		ctual	1		Short Term Target	-			1	
index	PA AZA P	age Order Cod		Metric Type	Metric/ Indicator Business Plan Att A Description	Mestic	Sector	Year	Numerator	Denominator	2016	2017	2018	2019	2010	2019	2020	Mid Term Target (2023-2023) Cumulative	Long Term Target (2030-2020) Cumulative	Methodology Key Definitions	Proxy Explanation FLAG
47	PGBS ACC	RSF1 S	1 First year annual Therm gross	S1: Energy Savings	Metric First year annual and lifecycle evante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual Therm gross	Residential (RSF)	2016	N/A	N/A	4,632,719	3,369,150	4,886,355	3,802,555	9,470,631	11,898,350	10,568,294	13,109,479	13,035,818	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted goals in 0.117-09-005 and the 2018 Possettal and Goals Study. Single family savings are based on dwelling type, and includes 82% of the savings thom Residential Energy Advisor based on the portion of Home Energy Reports savings.	
48			First year annual Therm net		First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and	First year annual Therm net	Residential (RSF)	2016	N/A	N/A	4,236,882	3,212,904	4,641,630	3,720,910	8,451,068	10,539,716	9,568,634	10,106,555		Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted. Single family savings are based on dwelling type, and includes 82% of the savings.	
	PGBS ACC		i lifecycle ex-ante kir	S1: Energy Savings	Metric demand savings (gross and net) for Single Family Customers Metric First year annual and lifecycle evante (pre-evaluation) gas, electric, and demand replace or produced for the Single Carolin Customers	Lifecycle awante KW gross	Residential (RSF)	2016	N/A	N/A	169,455	220,606	206,084	263,276	137,759	189,581	180,141	193,118	201.894	gains in 11-79-925 and the 2018 Fermion and Goods Ready. With Indicational Assign Scholars beard on the purpose or many security of the second on the purpose or many second or many second on the purpose or many second or many seco	
-			gross																	2016 achievements align with savings reported in 2006 Annual Report. Single family savings are based on dwelling type, and includes \$2N of the savings.	
50	PGBS ACC	RSF1 S	1 net	SS: Snergy Savings	Metric First year annual and lifecycle evente (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle awante KW net	Residential (RSF)	2016	N/A	N/A	131,010	157,629	171,971	225,671	119,929	165,030	156,813	168,110	175,749	2016 is chrowenest sign with saving reported in 2016 Annual Apport. Single family savings are based on dwelling type, and includes £214 of the savings from Sectional Annual Ann	
51	PGBS ACC	RSF1 S	1 Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric First year annual and lifecycle ex-anse (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle av ante KWh gross	Residential (RSF)	2016	N/A	N/A	412,342,972	1,051,475,778	1,095,587,656	1,616,837,189	417,719,834	584,216,674	\$70,830,760	646,377,600	713,659,563	2016 achievements align with savings reported in 2016 Annual Report. Single family savings are based on dwelling type, and includes 2016 of the savings from Residential Energy Advisor based on the portion of Home Energy Reports	
																				And a contract tecycle caving trapet passe on Jose accessment (passine) sent to single-family austrance. Socie family assistances. Socie family assistances. Socie family assistances.	
52	PGBE ACC	RSF1 S	1 Lifecycle ex-ante kWh net	SS: Energy Savings	Metric First year annual and Efecycle evante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle av ante kWh net	Residential (RSF)	2016	N/A	N/A	318,969,695	803,133,939	989,795,041	1,591,978,918	395,313,582	\$\$2,879,494	540,211,596	611,706,130	675,379,112	PGEE estimated lifecycle savings targets based on 2006 achievements (baseline) from Residential Energy Advisor based on the portion of Home Energy Reports	
Ω	PGBS ACC	t RSF1 S	1 Lifecycle ex-ante Therm gross	S1: Energy Sovings	Metric First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle awarde Therm gross	Residential (RSF)	2016	N/A	N/A	13,923,586	9,162,733	9,475,125	(12,793,166)	28,484,322	35,786,642	31,785,705	29,425,686	39,207,547	use flor over nations receive: Self E Google-Rosey catteriones. Self E Google-Rosey catteriones. Songle-Rosey catteriones.	
_																				AGE estimated likey-de usings targets based on 2006 achievements (baseline) sent to single-family customers. Society and various treases 2016 achievements align with savings reported in 2006 Annual Report. Society family savings are based on dwelling type, and includes 62% of the savings	
54	PGBS ACC	RSF1 S	1 Lifecycle ex-ante Therm net	SS: Energy Savings	Metric First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers		Residential (RSF)	2016	N/A	N/A	10,744,757	4,452,046	2,947,893	(15,975,573)	26,665,365	23,500,811	29,755,928	36,908,034	36,703,460	PGES estimated lifecycle savings targets based on 2006 achievements (baseline) to meet to single-family customers.	
SS	PGBS ACC	I RSF2 G	MTCCOpq	GHG	Metric Greenhouse gasses (MT CO2eq) Net Wh savings, reported on an annual basis.	CO2-equivalent of net annual kWh savings	Residential (RSF)	2016	N/A	N/A	66,498	75,190	22,275	25,515	66,843	92,912	91,752	101,423	110,330	And are sent sent sent sent sent sent sent sen	
54	PGBS ACC	s RSF3 DS	-D Lifecycle NET kW	0s: Depth of interventions: Per downstream participant	Average swings 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	106,110	69,408	1.53	2	2.91	0.75	1.57	1.59	1.62	1.66	1.72	Numerator: rotal downstream savings cosmic Denominator: Total number of downstream participants (unique premise and Per SD: "Energy savings" lifecycle NET savings. Increase life()	
52	PGBE AG	s RSF3 DS	-D Lifecycle NET KWh	0s: Depth of interventions: Per downstream participant	Average taxings 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	208,538,195	69,408	3,005	3,271	6,763	2,353	3089	3132	3176	3266	2281	Numerator: Total downstream savings claimed becominator: Total number of downstream participants (unique premise and Per ED: "Energy savings" = lifecycle NET savings.	
Sit	PG&E ACC	s ssra os	Uflecycle NET Therm	DS: Depth of interventions:		Average lifecycle ex-ante Therm net savings per participant - Opt-in - Downstream	Residential (RSF)	2016	7,383,257	69,408	106.37	222	616.83	168.72	109	111	112	116	120	Jacopart III-l Manierator: Total downstream savings claimed Decominator: Total number of downstream participants (unique premise and Per ESC: "Energy savings." - lifecycle NET savings.	
59	PGBE ACC	s ssra os-	M Lifecycle NET kW	Dt: Depth of interventions:		Average lifecycle ex-ante kW net savings per participant - Opt-in - Midstream	Residential (RSF)	2016	69,100	N/A	N/A	N/A	N/A	Account (bit) Middleteam markedology -MOT FAGSELSNumerator: Total midstream savings chimedDenominator: (not available) number or sector of midstream agreed to report only the numerous for this metric in the compliance filing.							
			M Lifecycle NET KWh	Dt: Depth of interventions:	prosen down by downstream, microvers and upstream, at reasons Average ravings per participant in both opt-in and opt-out programs (broken down by downstream, middzeam and upstream, as feasible)		Seridential (SSE)	2016	70.830.960	N/A	N/A	N/A	N/A	matricianum: agrees to export only the fundament methodology +00° FACABLE****Summarizer: Total middresses methodology +00° FACABLE****Summarizer: Total middresses makings chaines* "Announcement on the complete on the comp							
_		s RSF3 D1-		Per midstream participant Dt: Depth of interventions: Per midstream participant			Residential (RSF)	2016	2,325,660	N/A	N/A	No	N/A								
64					Metric Average savings per participant in both ope in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)							N/A								Middeman entrolluling: AND FEAGURE-In-Missacration That delicioness in legisla demanded «Seminations of an exhibitally under our derichitations in legisla described and the exhibitally and the exhibitally described and exhibitally and the exhibitally and the exhibitally and the exhibitally described and exhibitally and exhibitally and exhibitally and exhibitally and exhibitally and exhibitally described and exhibitally and exhibitally and exhibitally and exhibitally and exhibitally described and exhibitally and exhibitally and exhibitally described and exhibitally and exhibitally described and exhibitally and exhibitally described and exhibitally descr	
ω.				Dt: 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)		Residential (RSF)	2016	20,000	1,500,000	0.02	•	0.24	0.02	0.021	0.021	0.021	0.002	0.023		
ω		s RSF3 DS		Ds: Depth of interventions: Per opt out participant		Average lifecycle ex-ante kWh net savings per participant - Opt-out	Residential (RSF)	2016	133,050,000	1,500,000	89	92	1703	87	91	92	94	96	100	Numerator: net lifecyde savings from Home Energy Reports Denominator: stall number of	
64	PG&E ACC	s RSF3 DS	 Uflecycle NET Therm 	Dt: 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	4,050,000	1,500,000	2.70	3	65.90	2.77	2.8	2.8	2.9	2.9	3.0	Decominator stati number of livera Georgy Reports MCT reviews MCT re	
65	PG&E ACC	s RSF3 DS	-U Lifecycle NET kW	Dt: Depth of interventions: Per upstream participant	Metric Average savings per participant in both opt in and opt-out programs (broken down by downstream, midstneam and upstneam, as feasible)	Average lifecycle ex-ante kW net savings per participant - Opt-in - Upstream	Residential (RSF)	2016	1,316	N/A	N/A	N/A	N/A	Upstream methodology—NOT FEASINES**Numerator: Total upstream savings claimed*-Denominanor: (not available) number or sector of of upstream participants of the numerator for this mercic in the compliance filing.							
66	PGBS ACC	s RSF3 DS	-U Lifecycle NET kWh	Ds: Depth of interventions: Per upstream participant			Residential (RSF)	2016	896,980	N/A	N/A	N/A	N/A	Upstream methodology- NOT FFASIRS-Numerator: Total upstream savings claimedDenominator: (not available) number or sector of of spatnesm Since it is unclear how to define upstream "participants," PAs and ED agreed to							
Θ.		s sera os		Dt: Depth of interventions: Per upstream participant	Metric Average rawings per participant in both ope-in and ope-out programs (broken down by downstream, midstream and upstream, as feasible)		Residential (RSF)	2016	124,823	N/A	N/A	N/A	N/A	participants Import only the summator of this new form the computation of the computatio							
				Per upstream participant P1: Penetration of energy efficiency programs in the eligible market: Percent of	(broken down by downstream, midstream and upstream, as feasible)	participant - Opt-in - Upstream	,													the control of the co	
68	PGBS ACC	RSF4 P	1 Percent	Partidoation		Percent of participation relative to eligible population	Residential (RSF)	2016	69,408	4,474,840	1.6%	0	3.29%	0.76%	1.6%	2.3%	2.3%	2.7%	3.0%	(Si) Decominator: total number of unique 5F account and premise this	
69	PGBS ACC	BSF4 PS	2 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	16,236	548,892	3.0%	0	3.79%	122%	3.02%	3.02%	2.02%	3.1%	3.2%	Numerator: Number of SF participants in DACs (unique account and premise ISN) Denominator: Total number of SF customers in DACs (unique account and premise DAC customers defined in accordance with D.18-0F-061	
																				(Dit) Numerator Number of CC VID nontrinears (unique sonues and nomina life) Circ.	ra 9055 februar met sam sammet lanassama eletta this matric idantificar nacidantial
70	PGBS ACC	RSF4 P	4 Percent	Pt: Penetration of energy efficiency programs in the HTR market	Metric Percent of participation by customers defined as "hand-to-reach"	Percent of participation by customers defined as "hard-to-reach"	Residential (RSF)	2016	14,590	604,424	24%	0	0.27%	0.24%	2.5%	2.5%	2.5%	2.5%	2.7%	Namerators: Number of SF WR participants (unique account and premise Its) Bosonistators: Total number of SF WR customers (unique account and premise MR customers defined in accordance with 0.18-05-041. Col. Namerators	ce PG&E does not yet report language data, this metric identifies residential omers as HTR if they meet the geography and income and geography and sing type criteria.
																				PAC cost per KWh or per thems or per KW is (PAC Cost s Kinstric Beneflet/Total Beneflet/Ullecyde Net KWh or (PAC Cost s Gas Beneflet/Total Beneflet/Lifecyde Cost per KWh or per themse or per KWh (Dat s Gas Beneflet/Total Beneflet/Lifecyde)	
71	PG&E ACC	RSFS LI	PAC Levelized Cost (S/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	\$ \$7,896,037	131,000	\$ 641.92	337	\$ 158.76	\$ 272.23	\$ 419.83	\$ 419.83	S 419.83 S	297.72 \$	375.63	Not therm or IPAC Cost x Electric Benefits (Total Benefits) Lifecyde Not VW Impetchely Inveliand costs are reported by sector consistent with primary sector groupings in CEDAKS PROGRAM specifications.	
																				The adopted avoided cost methodology does not provide information to provide a meaningful value for TBC or PMC Cost per kW.	
																				PAC cost per kWh or per them or per kW is (PAC Cost x Siestric Benefity/Total	
72	PGBS ACC	RSFS LE	C PAC Leveland Cost (S/kmh)	Cost per unit saved	Metric Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (\$/kWh)	Residential (RSF)	2016	\$ 57,896,037	318,969,695	\$ 0.18	٥	\$ 0.06	\$ 0.04	\$ 0.17	\$ 0.17	S 0.17 S	0.16 \$	0.15	ASC cast a per visits or per them or per visit y BAC cast a Security Security and security Security Security or Security Securit	
																				Inspections of the control of the co	
73	PGBS ACC	a RSFS LI	PAC Levelized Cost (\$/therm)	Cost per unit saved	Metric Leveloed cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (\$/therm)	Residential (RSF)	2016	\$ 11,021,211	10,744,757	\$ 1.03	0	\$ 0.41	\$ 0.30	5 0.98	5 0.98	\$ 0.98 S	0.92 S	0.87	Benefits/Ulksyck het kith or PAC Cost x Gas Benefits/Total Benefits/Lifecycle het there or PAC Cost x Electric Benefits/Lifecycle Net VW temport/wely temport/well temport/wel	
																				TRC. cost per kinh or per therm or per kink (TRC Cost is Sective inverting Total industries), the cost is section of the cost is section	
74	PG&E ACC	RSFS LI	TRC Leveland Cod (S/kW)	Cost per unit saved	Metric Leveloed cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost (S/kW)	Residential (RSF)	2016	\$ 86,484,365	131,000	\$ 660.14	624	\$ 601.78	\$ 348.91	\$ 627.13	\$ 627.13	\$ 627.13 \$	594.12 \$	561.12		
																				The adopted avoided cost methodology does not provide information to provide a meaningful value for TBC or PMC Cost per NW.	
75	PG&E ACC	s RSFS LI	TRC Leveland Cod (S/kwh)	Cost per unit saved	Metric Leveloed cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelined Cost (S/AWh)	Residential (RSF)	2016	\$ 86,484,365	318,969,695	\$ 0.27	0	\$ 0.10	\$ 0.05	\$ 0.26	s 0.26	s 0.26 s	0.24 \$	0.23	TRC cost per With or per therm or per Will (TRC Cost x Discortic Beneflox/Total identifical) belongs here kinds or (TRC cost x Gost Senerlar). The cost is senerlary cost in the cost x perspected by sector consistent with primary sector groupings in CDSASS PROGRAMM specifications. CDSASS PROGRAMM specifications.	
			TRC Level and Cost		Laudinations of agency efficiency per WAS there and William both TO																
ж	PGBS ACC	i RSFS LI	C TRC Levelized Cod (\$/therm)	Cost per unit saved	Metric Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)		Residential (RSF)	2016	\$ 16,478,432	10,744,757	\$ 153	1	\$ 0.69	\$ 0.29	\$ 1.46	S 1.46	S 1.66 S	138 5		Net therm or (TRC Cost x Bectric Benefits/Total Benefits)Uflecycle Net. kW	
77	PGBS ACC	s RSFGI D	s Seu	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 - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total SF energy use from PGBS database (gst = electric) Denominator: Number of unique account and premise ID in SF segment Mousehold refers to a unique account and premise ID in SF segment									
78	PGBS ACC	I RMF1 S1-	First year annual kingross	S1: Energy Savings	First year annual and lifecycle ev anne (pre-evaluation) gas, electric, and demand savings (grass 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	N/A	N/A	7.949	2,817	5.465	4,273	6,826	8.700	8.902	10,153	11,094	Baseline savings tie to 2016 Annual Report. Targets are aligned with CPUC adopted any building or property with at least two residential housing units. Multi-family goals to 0.117-09-005 and the 2018 Postetial and Goals Study.	
			gross				tamily (RMF)													portfan of Home Energy Reports sent to multi-family customers.	
29	PGBS ACC	RMF1 SI	Rinst year annual kin	S1: Energy Savings	First year annual and lifecycle evente (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-writ, common area, and master metered accounts)	First year annual KW net - In Linit	Residential Sector – Multi- family (RMF)	2016	N/A	N/A	7,496	2,022	5,247	4,483	5,891	7,697	7,949	9,070	9,887	baseline scaling the 19 2016 Annual Report. Targets are slighted with CRUZ adopted goals in 0.1179-925 and the 2018 Februarial and Goals Skedy. profession of these CRUZ Profession of the 2018 Februaria and Goals Skedy. profession of these CRUZ Profession of the 2018 Februaria and Goals Skedy. profession of these CRUZ Profession of the 2018 Februaria and Goals Skedy. profession of these CRUZ Profession of the 2018 Februaria and Goals Skedy. profession	
			-				samely (Marce)													portion of Home Energy Reports and the Journal and dode shape. portion of Home Energy Reports and to multi-family customers.	
80	PGBS ACC	RMF1 S1-	First year annual kitch gross	S1: Energy Savings	First year annual and lifecycle evente (pre-evaluation) gas, electric, and Metric 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	N/A	N/A	29,178,051	30,672,075	27,212,127	23,903,587	29,962,926	28,228,162	29,675,125	44,810,408	50,095,694	And Early designation and on designation and the second sec	
																				portion of Home Energy Reports sent to multi-family customers.	
81	PGBS AG	RMF1 SI-	(U First year annual kWh net	S1: Energy Sovings	First year annual and lifecycle evente (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 Linit	Residential Sector – Multi- family (RMF)	2016	N/A	N/A	28,722,283	29,643,646	27,779,364	24,393,013	27,008,041	34,587,874	35,941,953	40,044,569	44,301,692	Baseline scalings list to 2016. Annual Report. Targets are aligned with CVX adoption shadow groups and selected study, with CVX adoption shadow and selected shadow and referred to a 2018 Protectal and Goals Study, with CVX adoption shadow and selected shadow and referred to a 2018 Protectal and Goals Study, with CVX adoption shadow and selected shadow and referred to a 2018 Protectal and Goals Study, with CVX adoption shadow and selected shadow and referred to a 2018 Protection and the 2018 Protection and	
																				partition of Home Energy Reports sent to multi-family customers. Multi-family declaration based on dwelling true in HGBE database and refers to	
82	PGBS ACC	RMF1 S1-	III First year annual Therm gross	S1: Energy Savings	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	N/A	N/A	856,377	1,240,264	1,222,538	1,094,811	1,422,317	1,783,970	1,829,791	2,752,920	3,588,827	Mail: Instity designation has and on desiling type in PGEA Estates and infers to haseline scaling (se to 2016 Annual Report, Targets are alliqued with CRUC salepset gank in 0.17 GH-925 and the 2018 Retential and Goods Study. Assistance of the 2018 Retential and Goods Study.	
																				And desired and the second of	
83	PGBS ACC	RMF1 SI	(U) First year annual Therm net	S1: Energy Savings	First year annual and lifecycle ev-ante (pre-evaluation) gas, electric, and Metric demand savings (gross and net) for multifamily customers (in-writ, common area, and master metered accounts)	First year annual Therm net - in Linit	Residential Sector – Multi- family (RMF)	2016	N/A	N/A	862,779	1,304,577	1,164,789	1,085,260	1,198,230	1,482,985	1,529,949	1,897,754	2,368,433	Baseline scalings to to 2016 Annual Report. Targets are aligned with CPUC adopted any building or property with at least two redistricts from his building and the DLT adopted grant in DLT-09-025 and the 2018 Posterial and Goals Study. Perform of His Property with a stress that two redistricts from Annual Annual Property savings include 37% of the unsings from the Redistrict Energy Advisor board on the partition of Horse Energy Report sents to suit-6-inney about partition of Horse Energy Report sents to suit-6-inney about partition partition of Horse Energy Report sents to suit-6-inney about partition.	
84	PGBS ACC	RMF1 SI	U utecycle ex-ante kt grass	SS: Energy Savings	First year annual and lifecycle evente (pre-evaluation) gas, electric, and Metric demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle awante kW gross - in Unit	Residential Sector – Multi- family (RMF)	2016	N/A	N/A	23,058	23,507	18,609	4,822	19,801	25,236	25,824	29,452	32,007	All baseline savings ris no 2016 Annual Report. Targets are aligned with CRUC subgrad goals in D.3.7 69-025 and the 2018 Potential and Goals Study, southern of the savings from Residential license, which the limits of the savings from Residential license, and the control of the savings of the savings of the Residential license, and the savings include 37% of the savings from Residential license, and the savings	
					First year annual and lifecucie or onto (pre-evaluation) gas, electric, and															Multi-family designation based on dwelling type in PGSE database and refers to	
85	PGBS AGS	RMF1 S1	net net	S1: Energy Savings	Metric demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle av ante KW net - in Linit	Residential Sector – Multi- family (RMF)	2016	N/A	N/A	18,653	24,763	16,094	4,931	18,648	23,766	24,319	27,797	30,543	All baselines usingst the 30 06 Annual Report. Targets are aligned with CRUC and building or property with at least tree residential busings unknown with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential busings unknown buildings or property with a least tree residential business. Buildings or property with a least tree residential business unknown buildings or property with a least tree residential business. Buildings or property with a least tree residential business and tree residential business	
					First year annual and lifecycle or onto (pro-evaluation) gas, electric, and															Multi-family designation based on dwelling type in PG&E database and refers to	
86	PGBS ACC	RMF1 SI-	Lifecycle ex-ante kWh gross	S1: Energy Savings	First year annual and lifecycle evente (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 grass - In Unit	Residential Sector – Multi- family (RMF)	2016	N/A	N/A	55,044,962	88,869,434	55,869,480	28,804,777	54,525,645	72,325,693	74,847,917	84,535,710	94,506,505	All Sandine scaling sin to 2016 Annual Report. Targets are rigined with CVCL adoption plant in EAST decisions and others to adopt the scaling sin to 2016 Annual Report. Targets are rigined with CVCL adoption goals in 0.21 CH 2016 meters and CEAR Study, adoption goals in 0.21 CH 2016 meters and CEAR Study, and CEAR Study, and CEAR STUDY and CEAR STUD	
	PGBS ACC		u Lifecycle en moto		First year annual and lifecycle we onne (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and meater metered accounts)		Residential Sector - Mu ⁽⁴⁾	2016	N/A	N/A	46,230,154	71,535,215	50,840,793	28,475,120	55,642,895	71,196,197	73,679,032	83,215,532	49.4***		
82	Plata AD	1 HAR-1 SI-	Lifecycle ex-ante kitch net	S1: Energy Savings	Metric demand savings (gross and net) for multitumity customers (in-unit, common area, and master metered accounts)	Lifecycle av ande KWh net - In Linit	Residential Sector – Multi- family (RMF)	2016	ng/A	N/A	46,330,154	/1,35,315	50,840,793	28,475,120	55,642,895	71,196,197	74,679,032	10,215,532	93,090,615	All baseline strongs the to 2016 Annual Report. Targets, are aligned with CPUC adopted goals in 0.17 04-025 and the 2018 Patential and Goals Study, and public go property with at least to are relationed broadly about during a property with at least to are relationed broadly about during a property with at least to are relationed broadly about during a solicy and the swings from the Received Energy Advisor based on the particle of latened leasy groups used to such England substantial and control of latened leasy groups used to such England substantial.	
66	PGBE ACC	BME1 ~	Lifecycle en ante	SS: Snegy Savings	First year annual and lifecycle eviante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle awante Therm grass - in Linit	Residential Sector – Multi- family (RMF)	2016	N/A	N/A	2,285,562	9,209,274	5,848,033	2,454,370	3,795,985	4,761,189	4,867,668	7,347,195	6039 473	All baselne surings to to 2016 Annual Report. Targets are sligned with CPUC. All paselne surings to to 2016 Annual Report. Targets are sligned with CPUC. All paselne surings to to 2016 Annual Report. Targets are sligned with CPUC. All paselne surings in CR17-09-025 and the 2018 Potential and Closis Study. All thouse the surings of the CR18 distance and the CPUC. All paselne surings in CR17-09-025 and the 2018 Potential and Closis Study.	
-	A0		U Lifecycle ev-ante Therm gross	as. seedly basings	common area, and master metered accounts)		family (RMF)	2,548	-/n	-for	4,440,562		2,010,022	2,000,070	V-10,600	1,711,209	-,0007,0000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9,070,252	portfion of Home Energy Reports sent to multi-family customers.	
80	PGBS ACC	RMF1 SI	Lifecycle ex-ante Therm net	SS: Energy Savings	First year annual and lifecycle ex once (pre-evaluation) gas, electric, and Metric demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts).	Lifecycle avante Therm net - in Linit	Residential Sector – Multi- family (RMF)	2016	N/A	N/A	1,815,288	6,190,908	4,190,606	1,847,865	3,824,362	4,716,783	4,903,856	7,402,120	9,649,755	All baseline statings that 2016 Annual Regent. Targets are aligned with COLS adopted goals in 8.17 69-025 and the 2018 Potential and Goals Study, particularly included Training from Residential Study, particular of the college from Residential Study, particular of the college from Residential Study, particular of Study Reports and study from Residential Study, particular of Study Reports and study from Residential Study.	
			Therm net		common area, and master metered accounts)		tamey (RMF)													accepted goas in U.1 / OH-U.2 and the JUSE Patential and Goals Study. usings include 17% of the usings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.	

Attachmen	t 4, Table 19	
PA Name	Parific Gas and	Electric

Name: Pacific Gas a dget Year: 2021										Baseline			Act	tual			Short Term Target				٦	
PA At	ATA Page Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Year	Numerator	Denominator	2016	2017	2018	2019	2018	2019	2020	Mid Term Target (2023-2025) Cumulative	Long Term Target (2038-3026) Cumulative	Methodology Key Defi	nitions Proxy Explanation 544G
PGBE	AGG RAMF:	. SS-MM	First year annual kW gross	SS: Snegy Savings	Metric	First year annual and Mingoline was the figure evaluation) gas, electric, and determined casing liginar and neight multilateniny castomers (in-sect, secretics see, and matter mattered section(s)).	First year annual KMI gross - M asser Mesered	Sectional Sector – Multi- thenly (RMF)	2016	N/A	N/GA.	N/A	N/A	N/A	360.6611958	N/A	N/A	N/A	N ₄ (0).	N/A	PAGE's under to request this metic of this first because PGGET as on this stocky monetary arguest than the transition and the stocky and a stocky and was consistent for the first and the stocky and a stocky and of a stocky, and was consistent for the first and the stocky are stocky as a stocky as a stocky are stocky as a stocky as a stocky as a stocky as a stocky and the stocky as a stocky as a stocky as a stocky as a stocky and the stocky as a stocky as a stocky as a stocky and the stocky as a stocky as a stocky as a stocky as a stocky as a stocky as a stocky as a stocky as a stocky a	The control of the co
PGEC	AGG RANF:	. SS-MM	First year annual kW net	SS: Snergy Savings	Metric	First year annual and lifergine as the lips e-evaluating gas, electric, and demand causing ligens and neight multilensing cases report, or excess area, and matter melevel accounts).	First year annual KW net - Master Metered	Residential Sector — Multi- turnly (RMF)	2016	N/A	sejon	NGA	N/A	N/A	235.1708686	N/A	N/A	N/A	N _c Os.	M/A	mild, it wouldn't compare the weditor of this time because Mild. The not historical values of the contract of	high consistent was contained community for some profess shall be the Section of Section (Section Section Sect
PGES	AGG RAME:	. SS-MM	First year annual kitch gross	St: Energy Savings	Metric	Set year small and Blogdie mobile (pre-evilation) gas, electric, and damand casing (gress and notify or multitudinal yearness; pre-sol, connect cases, and mader metered scciousts).	First year annual little goos - Marter Metwed	Sectional Sector – Multi- theoly (RMF)	2016	N/A	N/A.	N/A	N/A	N/A	770277.222	N/A	N/A	N/A	N/OA	N/A	MSEE a violet to report the order or the fine forward MSEE for not frameway, required represent and the term and and reported at this hand of direct, and was vesseled to provide for the DSEE.	And consideration in exercise (consecution from our wife or 1900 TO 1905 for the CEX Substitute) (see Fig. 1907 to 1900 to 19
PGEC	AGG RAMF:	. SS-MM	First year annual kWb net	SS: Snergy Savings	Metric	First pers annual and Brogole exists (pro-exhadron) gas, electric, and common long (gens and ring for multi-lamin) customers (b-seat, common sease, and reader modered account).	First year annual kitch net - Masser Metered	Sectionarial Sector – Multi- family (RMF)	2016	N/A	Mor	NGA	N/A	N/A	600651.6881	NEA	MFA	N/A	N/OL	M/A	MALE value to report this order of this stoke locate MALE has not instructive country to the country are considered and the country areas for the fine of the country areas for the country ar	content allows The content allows are content and content and any of an artist and an artist and an artist and artist artist and artist artis
PGES	AGG RAMF:	. SS-MM	First year annual Therm gross	S1: Greegy Savings	Metric	For your annual and lifesylle is not by the evaluation(gar, electric, and execute using great and right or malfamily customers (in-out, customers area, and entail or extend account).	First year annual Thems gross - Master Methered	Parcidential Sector – Multi- humby (RMH)	2016	N/A	Mor	N/A	N/A	N/A	70294.58282	N/A	N/A	N/A	N _C OL	86/54	MACE is written to oppose this members of this time Members MACE to and training the would be allowed by a comparable of the comparable of the contraction would be allowed by a rown for the flag.	entented riskur. PAEE consoled the American Community inversy and the 2000-2010 PAEE and LES assistance in Community inversity and the 2000-2010 PAEE and LES assistance in Community inversity and the 2000-2010 PAEE and LES assistance in Community and LES assistance in LES assistance
PGES	AOB RANF:	. SS-MM	First year annual Therm net	SS: Snergy Savings	Metric	First peer annual and Brogole exactor (pre-exclusion) gas, electric, and control and progole exactor (pre-exclusion) (prior, controls area, and reader indexed account).	First year annual Therm net - Master Metered	Periodential Sector – Multi- family (RMF)	2016	N/A	sejon	N/A	N/A	N/A	45630.14736	N/A	MEA	N/A	N _c Ox.	M/A	MALE is within to report the order or this steel because PEAL for and instructive world to define a steel or to the steel or the steel	consist allow. Media consiste side for the consistency for low and the 2005 200 DEED and and the consistency for the consiste
PGBS	AGG RANF:	SI-MM	Ušecycle eo ante kW gross	SS: Energy Savings	Metric	tong per around and Moyade are not per evolutioning as wheels, and demands using green and off or multimosis patients (a-val, contents area, and matter matered accounts).	Lifetycle ou anto little gross - Moster Meteored	Secidential Sector – Multi- family (RMF)	2016	N/A	s40x	N/A	N/A	N/A	1235.230071	N/A	M/A	N/A	N/A	N/A	health, and the report the walls of this filter beauth MALT for not believed, where the second of th	received about the contract of contract, and was part of contract and the
PGRE	AGG RAMF:	. SS-MMM	Ufecycle ex-ante kW net	St: Energy Savings	Metric	tics pair around and filteration are too (are exhibited age, electric, and demand changing (green and notify or multitudinal) quantums (a vivid, convents area, and mader metered accounts)	Lifequise are actio kill' nert - Master Metered	Sectional Sector — Multi- theoly (RMF)	2016	NJA	N _E CA.	N/A	N/A	N/A	805.4823655	N/A	N/A	N/A	N _c (a,	N/A	hold it width to appet this action after the foreign which the set is believed, which is a set is believed, which is a set is a set is a set in a set is a set in a s	The state of the s
PGRE	AGG RANF:	. SS-MM	Lifecycle en ante kWh gross	SS: Energy Savings	Metric	tors year around and Mongals are the jars while disting as, who is, and demonst imaging gives and not fire multitariles) quantum (o'work, continues area, and matter matered accounts)	Lifetycle ex-ante litth gross - Master Metered	Secidential Sector – Multi- turnity (RMF)	2016	N/A	N/CA.	N/A	N/A	N/A	2784164.822	N/A	N/A	N/A	N/OL	N/A	redicts and the required the value of the first below and MSAT to not be belowing required program does the treated and reported at the head of shall, and was unable to debuding a prompt for this filling.	MAG consistent from American Community (server seed to 2023-2020 FeEE and (255 Audholbe) (length (1964) Audholbe) (lengt
PGES	AGG RANF:	. SS-MM	Lifecycle ex-ante kithh net	SS: Snergy Savings	Metric	trop per around and through execute plan-enhalodoring as electric, and manufacturing (press series for multituding accounts) (house, common area, and mader matered accounts)	L'Incycle ex-ante XWh net - Master Meterod	Sensidential Sector – Multi- turally (RMS)	2016	N/A	SA,CA.	N/A	N/A	N/A	2942118.321	N/A	M/A	N/A	N/OL	N/A	had \$1, and the request the walls of \$10, find bloods MAX file and bloods were separately as the second of the least of th	moment atoms. Field consoled that American Community is only and the 2005-2010 Field and a field consoled that American Community is not an extensive and the 2005-2010 Field and a field consoled the communities that the price are consoled to soft why not to one part and the consoled that the communities and the consoled that the communities are consoled to the communities are consoled to communities are consoled to communities are consoled to community and the communities are consoled to community and the communities are consoled to community and the communities are consoled to communities are consoled to community and communities are consoled to communities are consoled to community and communities are consoled to community and communities are communities are consoled to communities are communities are consoled to community and communities are consoled to communities are consoled to communities are communities are consoled to community and communities are consoled to community and communities are consoled to community and communities are communities are consoled to community and communities
PGBS	AGG RAWF:	. SS-MM	Lifecycle ex-ante Therm gross	SS: Snergy Savings	Metric	First per should and Broycle entring lips withouthing par electric, and more and entring lips to see the lips the large scattering from contracts area, and reader indexed accounts.	L'Magaile assante Therm gross - Mantier Meterod	Sentidential Sector – Multi- turally (RMG)	2016	N/A	SA/CA.	N/A.	N/A	N/A	976587.4129	N/A	N/A	N/A	N/OL	N ₀ (X	MALES, could not request this waster, after since decause MALE for not transcrive, and the size of the	moment atoms. Field consoled that American Community is soney and the 2005-2012 Field and a field consoled that American Community is soney and the 2005-2012 Field and a field consoled consol
PGRE	AGB RANF:	. SS-MM	Lifecycle ex-ante Therm net	SS: Snergy Sovings	Metric	First pers annual and Brogole exists (pro-exhadron) gas, electric, and committeeing (persons of our broadbands) customers (b-sail, commissions, exhibited ended become)	Lifecycle awards Therm rat - Macter Messeed	Sentidential Sector – Multi- femily (RMG)	2016	N/A	M/M	N/A	N/A	N/A	610272.2323	N/A	N/A	N/A	N _c Os.	N/A	MALE value to report the order of the other local MALE to and teatments MALE value to report the order of the other local MALE to and teatments and to delivery prompt for the title and order of the order of other in the	motived states. Field consoled the American Continuously is may see this 2000-2000. Field and a field consoled the American Continuously is may see that 2000-2000. Field and a field continuously consoled the continuous for an entire see that settle years on particular seeds for the continuous and entire seeds and seeds for the continuous and entire the seeds for the continuous and entire seeds and entire see

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PΑ	Name	Parific (los sed	Electric

Attachment 4, PA Name: Pac Budget Year: 2	iable 19 lic Gas and 121	Electric									Baseline			A	ictual			Short Term Target				٦	
index	A AZAI	ATA Page Order	Method Code	Units of deasurement	Metric Type	Metric/ Indicator	/ or Business Plan Att A Description	Metric	Sector	Year	Numerator	Decominator	2016	2017	2018	2019	2018	2019	2020	Mid Term Target (2003-0028) Consulative	Long Term Target (2038-2020) Cumulative	Methodology Key Definitions	Proxy Explanation FLAG
102 F	SEC AC	03 RMF1	s-ca Fin	t year annual VW gross	SS: Energy Savings	Metric	First year annual and lifecycle on onto [pre-evaluation] gas, elector, use of demand savings [gross and not] for multifamily catomers (in-unit, cammon avea, and master metered account).	First year annual KW gross - Common Area	Recidential Sector – Multi- thenity (SMF)	2016	N/A	N/A	N/A	N/A	N/A	65.55391365	N/A	N/A	N/A	N/A	N/A	Held is not not support this medical at this time because Held it is not become held to make becoming make the control prompt for the large makes to denote prompt for the large.	PASE annexed the American Community Survey and the 2010-2012 PASE and a LS AMERICAN (page (Silvey) Selecting and pASE (Silvey) Selection and blook of Caracteristics Society, in a commyst to identify ways to split the multi- liance of the community of the community of the community of the community of larger than providing as solitoring split in this filling. PASE and collect the required solitomic larger split in the community of the community of the community of solitomic larger split in the community of the community of the community of an addition to requiring as solitomic split in the community of as addition to requiring workform to unified this solitomic name moving from 40°-624.
102 F	SAS AG	03 854F1	SI-CA First	t year annual KW net	St: Knergy Savings	Metric	Fact year annual and iffrequire in with join evaluation) gas, effects, as demand carego (gave and red for multibook) quantum of provide, connects area, and master inversed accounts)	First year annual kill rest - Common Area	Portification Sector — Multi- turnity (RMS)	2016	N/A	M/A	N/A	N/A	N/A	46,30816061	N/A	N/A	N/A	N/A	N ₀ /A	NASE is under the report this centur of this little because MSAE has not historisely required regions distribute histories and reported at this level of design, and was exactle to according prompt for the thing.	and all the transport of the control
104 F	SEC AC	03 Shafi	s-ca F	nt year annual kitih gross	St: Snergy Savings	Metric	First year around and lifesycle on one (pre-evaluation) gas, electric, and electric demand saving upon under any fire multitabels; customers (provide, assessment) when contract seets, and muster tracked accounts).	Eint year annual KWh gooss - Common Area	Recidential Sector – Multi- tionity (RAST)	2016	N/A	Mor	N/A	N/A	N/A	7040.893188	N/A	N,(A	N/A	N/St.	N ₀ /A	MALEs, and with support this model at this time because MALEs and becoming which is a support that model at the time because MALEs and becoming water to execute a prompt for the Eng.	wement date. All cannot dell memorita Community Survey and the 2000-2010 PAGE and CASE cannot dell memorita Community Survey and the 2000-2010 PAGE and CASE and CAS
105 8	SEC AC	03 Shefi	S-CA F	rst year annual XMh net	St. Snergy Savings	Messic	First per annual and filterprise arms (pre-evaluation) gas, electric, and demand casing (pers and end) for multiformity customers (in-sect, connects area, and master instead accounts).	First year annual ENN net - Common Avea	Recidential Sector — Multi- formity (RAdS)	2016	N/A	MA	N/A	N/A.	No.Co.	20061.62299	N/A	NGA	N/A	N/OL	M ₂ /A	Held is usually to apport this ment or this time because Held fit as only becoming invasive purpose than the tracked and operated at this word of beach, and was more to execute the second of purpose the fit filling.	PAGE constant for American Community Survey and the 2015-2012 PAGE and CS Mathematics (see per Sinderen) Pattern State (see Sinderen) and Market Characterization Sacky in an arranget to illustries, so to spill the mathematic page of the control of the state of the control of the state of the control of the state of the control of the
106 P	SEC AC	Ol RMF1	S-CA F	nt year annual Therm gross	St: Snergy Savings	Metric	Fact year around and fifting in a settle (pin evaluative), gar, effects, and demand careing ligens and only for mathibility customers (in-self, commons area, and mather interest accounts).	First year annual Thems gross - Common Area	Bertidential Sector — Multi- benily (BMS)	2016	N/A	McA	N/A	N/A	N/A	45787.37488	N/A	N/A	N/A	N/A	N ₀ /A	NGES is couldn't request this work of this time belower FGES has not historically required program distributed to Market and reported at this hand of admit, and was required to come the promption to those	Medien as study of the multi-color) agrees we wait to height 4 sprace historical method for the multi-color and process and the multi-color and method for the multi-color and the multi-color and the multi-color and public color and the multi-color and the multi-color and the multi- diat students (see price public color public color and testing and to spit the multi- diated to the multi-color and testing and testing and to spit the multi- section of the multi-color and the multi-color and the multi- diated the purposition and the multi-color and the multi-color and the multi- diated the purposition and the multi-color and the multi-color and the multi- diated the purposition and the multi-color and the multi-color and the multi- section spit and the multi-color and the multi-color and the multi- diated the purposition and the multi-color and the multi-color and the multi- diated the multi-color and the multi-color and the multi-color and the multi- diated and the multi-color and the multi-color and the multi-color and the multi- section and the multi-color and the multi-color and the multi-color and the multi-color and the multi- section and the multi-color and the
107 F	SEC AC	OQ Shefi	s-ca F	nt year annual Therm net	St: Energy Savings	Mestic	Fast per annul and filterple in ante (pre-valuation) gas, electic, per demand saving (gas and red) for multipolity contenue (p-set), concess ann, and mater interest accounts)	first year annual Therm set - Constson Area	Recidential Sector — Multi- family (RAAF)	2016	N/A	M/A	N/A	N/A	N/A	26806-23864	N/A	N/A	N/A	N/A	No. Fish	Hild is worth to suggest this works of this form because FRAM has not historized, where the purpose does not be to be based and outpeaked all this work of details, and was recommended by the based of the contract and contract and the contract and the contract of the contract and and contract and contra	where an indight the each develop segment would be depict as growth instead indications can extra section for the develop section and the section of the contract development. The contract the contract community and the contract of the contract the section Community and pure years to this SECO SEC and SEC and section (see part of the contract to the contract the contract these to the contract to the contract to develop we to write the con- tract the contract to the contract to the contract to the contract where the contract to the contract to the contract to the contract where the contract to the contract to the contract to the contract where the contract to the contract to the contract to the contract contract to section. It is also to the contract to the contract and action to supplies and contract to contract the contract and action to supplies and contract to contract the contract and action to supplies and contract the contract to contract and action to supplies and contract the contract to contract and action to supplies and contract the contract to contract and action to supplies and contract the contract to contract and action to supplies and contract the contract and action to the contract the contract and action to the contract and
100k F	ils as	O3 Shafi	s-ca sin	cycle ex-ante kW	St: Greegy Savings	Metric	First year around and lifespine as any lipse evaluation) gas, electric, year demand saving larger and real for mail-banks casesome (a-vall), advanced and gas and and are according to the control of t	Lifecycle ex-assa ISM gross - Common Area	Residential Sector — Multi- turnity (RMAS)	2016	N/A	N/A	N/A.	N/A	NA	42.92145423	N/A	N/CA	N/A	N/OL	N _A /A	MALES, would not require this reader of this core fraction MALES and historically would be all the second of this core fraction of MALES and historically would be all develop a years for the Edge.	Interest state. **Add canadastic backwards Community favory and the 2010-2010 Folds and folds are considered to the control of the control o
109 F	SAC AG	OB RMF1	S-CA UN	cycle eo-onte kW net	S2: Snergy Savings	Metric	For the annual and filterals in a rain (pre-solutative) gas, decision, except, except ground end for multituding cultimates (in-write, common area, and mader metered account).	Lifecycle av anta kill out - Common Area	Recidential Sector — Multi- family (RAAF)	2016	N/A	MA	N/A.	N/A	NA	68.15586517	NGA	N/SA	N/A	N/OL	Notes	MALES and the required the section of a file can be because FGEA to an a bisconting, required regiment depicts and the section and regiment of a 500-best of disease, and one candidate section is parameter for the file.	memoral data. **Call assessed and the American Community Survey and the 2000-2010 PAGE and USE ASSESSED AND ASSESSED AS
110 F	SEC AC	O3 SheFi	S-CA E	fecycle ex-ante kinth gross	St. Energy Savings	Metric	fort per around and disequirus even light evaluatively productions, electric, as semantic waveg (general first for multitude) contracts around (avails, common area, and mader metered account).	Lifecycle av anta KRR gross - Common Area	Rentidential Sector — Multi- formily (RAAF)	2016	N/A	MA	N/A.	N/A	N ₀ (A	-1828292.902	N/A	N/A	N/A	N _i (sk	No.CA	to the second sec	intensis state. **Add canalisation to sensistant Community Survey and the 2000-2010 Folds and Folds canalisation to sensistant Community studently states to gain the canalisation More of Communication Holley due no minimary to site only sensistant to the multi- folds of Communication Holley due no minimary to site of sensistant to the contract of the canalisation of the contract of the community of the contract of the contrac
111 F	SEC AC	03 SheF1	so.	flecycle on acte kitch net	St: Snergy Savings	Metric	First year around and lifesycle on one (pre-evaluation) gas, electric, and electric plant along (green and regifter multitaries) continues (provide, asserted and, and exacter inclined accounts).	Lifecycle ew ante With net - Common Avea	Recidential Sector – Multi- tionally (RAGT)	2016	N/A	McA	N/A	N/A	N/A	-867969.6053	N/A	N/A	N/A	N/St.	N ₀ /A	MALES, and the support this modes at this close because MALEs and becoming the support that modes at the composition of the support and the support of the	released area. Field cannick and extension Community Survey and the 2005-2013 CMSC and and community of the
112 8	SAC 240	03 SheF1	90A F	fecycle ex-ante Therm gross	St: Energy Savings	Metric	Fast year annual and filterplie no some (pre-evaluative) gas, effects, as demand covering (green and red) for multitability customers (plu-sold, commonds area, and master memoral accounts).	Lifecycle awards Therm grass - Common Avad	Rentidential Sector — Multi- tumby (RAAT)	2016	N/A	SQ.CA.	N/A	N/A	n ₀ (A	827216.4813	N/A	N/A	N/A	N/OL	NA	Add it would be suggest this work of all this lone below PASA for an Institution (maked pumping this first this trade and ampointed at this load of adds, and we where to work to provide the Dag.	with middle of the same general extension to a solid, catentia, was, as in terminal or "All catentials the same claim solid, so per a solid, catentia, was, as in terminal catentials of CRE Marketin, being officery faither region through received and and their catentials catentials of the same served in telling from solid sealing and being solid by one, or, and make a served received from a being solid by one, or, and an any officery deviced and solid being solid by one, and an analysis of the solid seal solid being solid and the solid sealing solid solid sealing solid solid sealing solid solid the solid sol
112 6	SEC AC	03 RMF1	SCA E	flecycle so ante Therm net	St: Knergy Savings	Metric	Fort per annual and Mergine was the per-evaluative/gap, electric, and electric demand casing ligits and red; for multifolish; customer (ne-out, convenience), and master indexed accounts).	Ulecycle as ante Therm set - Common Ansa	Recidential Sector — Multi- family (RAAT)	2016	N/A	M/A	N/A	N/A	N/A	472557.1262	N/A	N/A	N/A	N _i (sk	No.	MALEs and a transport this medical at this state because MALEs as and homodopy and the control of the control of the control of the control of the control would be a charriery prompt for the life.	memoral state. PAGE Constanted this American Community Survey and the 2010-2012 PAGE and CCS Mathematic Navige (Tellinon) Selected Program (MISTER) Process Calculation and About AC Standardisco Socialy is a mattern of selecting ways to self for enail- bility saving data by to visit, common seas, and makes creamed. Movemen, and the selection of
114 F	ides Ac	03 RMF2	6	MTC02eq	GHS	Metric	Greenhouse gasses (MT COZinq) Net With savings, reported on an annu- basis	of CO2-equivalent of net annual kitch savings	Residential Sector – Multi- Senily (RME)	2016	N/A	N/A	13,452	11,957	3,194	2,836	12,649	16,199	16,822	18,755	20,741	Calculated using CCT, and reported in the MF segment by dwelling type. Includes CCD but not MCE and RM100 as these are not GME equivalents.	madition to requiring various to order the internation receiving forward, PGEC believes a standy of the madi-finally regioner wand to the high to provide interiorizal information on the usings attributable to in-unit, common, area, and matter- mentered stan.

	and a section.	c													Ac		1				1		1		
ent 4, Table 19 e: Pacific Gas a Fear: 2021 PA A	ZA Fage Or	NEA Metho	od Units of a Measureme	t Metric Type	Met Indic	ric/ ator	Business Plan Att A Description		Metric	Sector	Year	Baseline	Denominator	2016	Ac 2017	2018	2019	2018	Short Term Target	2020	Mid Term Target (2003-0028) Consultative	Long Term Target (2036-2020) Cumulative	Methodology	Key Definitions	Proxy Explanation
PGES	AOI RI	MAF2 032	a Lifecycle NET	Di: Depth of interve per building		oric Energy raving	gs (kitch, low, therms) per project (building)	Lifec	cycle as anna KW net per project (building)	Residential Sector – Multi- family (RMF)	2016	14,491	123,307	1.83	0	0.26	0.02	0.12	0.12	0.12	0.13	0.18	Numerator: Total savings claimed for MF retrofit projects. Denominator: Number of buildings that have been retrofited	Nay befoldons Savings do not include scaling articles assume thanks customers receiving stone (longsy departs, as this mentic it bissued on projects. "Seeings univer" is flinglish MTL savings Resid on conventations with ED and the other PAR, PGEE agrees to assume that project is properly for this filling.	Since PGES does not require building information to be collected and reported from vendors, PGES used as estimate of 6.02 buildings per property from the 2010-2012 PGES and SCS Nutritionary Energy Efficiency belows Program (MSTES) PROCES Evaluation and Market Chrasteriosch Sudy for fast Region (MSTES)
PGES	AOL BS	isseF2 D2u	a Lifecycle NET is	Ol: Depth of interval per building	ntions Me	oic Snergy raving	gs (KMA, low, therms) per project (building)	Lifec	cycle ex-ante kitch net per project (building)	Residential Sector – Multi- family (RMF)	2016	20,426,499	123,807	1.84	764	405.17	136.36	170	173	175	180	186	Numerator: Total soviegs claimed for MF nerolls projects Decontrador: Number of haddings that have been renolitied	MORE were trained as an artist of the contract of a first own contract of the	Size PGES does not require building information to be collected and reported from weekers, PGES used as estimate of GES buildings per properly from the 2010-2018 PGES and GES with the PGES process (PedEs and GES with Chiese) Size of PGES process for failthoom for the Chiese collected paylor the filling. Moving Brassot, PGES will collect and report project data per building.
PGRE	AOI RS	MAFE DSU	a Effecycle NET To	Oil: Depth of interventions. per building	ntions Me	oric Energy raving	gs (KWh, kw, therms) per project (building)	Lifec	cycle av ante Therm net per project (building	Residential Sector – Multi- temby (RMF)	2016	1,100,217	123,307	1.58	95	60.00	иΩ	92	9.3	9.4	9.7	10.0	Numerator: Total savings claimed for MF retrofit projects Decominator: Number of buildings that have been reprofitsed	Middle ameniate seasons, our creates the interessable J. 6.4 was not one seasoning discount coloring control and consider performed for seasoning the coloring control and coloring theory for the col	Cloca PGEE does nor require building information to be collected and reported from verdices, PGEE used an extranse of GEE buildings per property from the 2005 0021 PGEE and CEE Multimary largest priferings release types (MESSE) Process Sufvisations and Market Characterisation Study for this filling. Moving Enrusist, PGEE will collect and report project data per building.
PGRE	AOI RS	issera D4	Lifecycle NET	W Dt: Depth of interve per property	ntions Me	stic Average savis	ngs per partidpaet Savings per project (propert	Ty) Lifec	cycle av ante KW net per project (property)	Residential Sector – Multi- family (RMF)	2016	14,491	20,517	1.84	a	1.42	0.10	0.73	0.74	0.75	0.77	0.79	Numerator - Total savings claimed for MF retrolls projects Denominator - Number of participating properties	Middle process to select on extract to increase by 1.6% sets once see being do not end codes once performed for select density continues receiving laters do not process, as this metric in bound on peopless. Charges swings* * Libergion NoT swings. Based on conversations with CD and the other PAA, PCAS agrees to assume that project a property for the fileg.	
PGBS	AGA RA	iseF2 D4	Lifecycle NET is	Wh. Depth of intervention per property	ntions Me	stic Average savis	ngs per partidpaet Savings per project (propert	Ty) Lifec	cycle se-ante KWh net per project (property)	Residential Sector – Multi- family (RMF)	2016	20,426,699	20,517	1.84	4,474	2425.07	759.43	1924	2038	1053	1082	1121	Numerator - Total savings claimed for MF restrict projects Genominator - Number of participating properties	ACM construction control or motive to increase but 1 for motive one one con- temple diese included configurational data of configurations receiving states. Design players, as the metric in bissued on projects. **Evergus varies** of short-players for construction of the Parties varies** of short-players for contemple on the contemple of the bissued on conventions with 100 and the other PAs, PSGS agreet to assume that applies a requesty for the lifety. **Every contemple of the lifety of the contemple of the parties of the contemple of the contemple of the contemple of the lifety of the contemple of the cont	
PGRE	AOI RI	MAF2 D4	i ušecycie NET Th	Dit: Depth of interve per property	ntions Me	tric Average savir	ngs per partisipant Savings per project (propert	Tyl) Lifec (proj	cycle awante Therm net per project oppeny)	Residential Sector – Multi- family (RMF)	2016	1,100,217	20,517	1.58	568	82.038	129.96	55	54	57	58	60	Numerator: Total savings claimed for MF netrolit projects. Denominator: Number of participating properties	looking the first Holder knowing strikening to make dening continuents make formly customers mensioning towards Energy deposition of the marties in Boscard on projects. "Energy savings" is Likecycle NET casings: Stand on communication with CD and the other Pala, PGEAT agrees to assume that empired is property for this Elling. MEET annotes insulance on ordinary his consequents in a five communication.	
PGBS	AO4 RES	issF2 DS	Lifecycle NST	DS: Depth of Interve Per square foo	ations: Me	nic Energy swing	go (ANA), low, theoresi, per equane foce	Lifec	nycle en ante XIII rest, per square foot	Residential Sector — Multi- family (RMF)	2016	18,653	9,419,740	112568	۰	0.0004	dades	0.0020	0.0025	0.0026	0.0029	0.0032	namemore. Task left unings. Sourcement of the author of unique bid provides and assured the of periodystee enabling and the average square floatings of left accounts.	her Ex-"Contrg salong" + libeyde NET taxings. Nodes salving mithoded NET salations for inside Cong Squarts, as the reach, collect salving mithoded set of control for salving for equal file. Incided of proper,	AGE date on comments guident square freching dated from multi-fielding program protriogent, and entitles the evalence quares from legal per articipant in the life square field. Specificity, CASS and the 2010-202 MISST briscane ficial states and many and CASS-CASS and the second process of the comment of the many and cASS-CASS and the eval profit is in the print of the comment of the articipant in the ASS and the eval profit is in the legal and case articipant in the ASS and case where the comment of the comment of the comment of the comment of the first many second comment of the comment of the comment of the first many second comment of the comment of the comment of the first many comments and the comment of the comment of the first many comments are comment of the comment of the comment of the first many comments are comment of the comment of the first many comments are comment of the comment of the first many comments are comment of the comment of the first many comments are comments and the comment of the first many comments are comments and the comment of the first many comments are comments and provided the comments are comm
PGBS	AOI RI	MAF2 DS	Lifecycle NST is	05: Depth of interve Per square foo	ntions: Mel	olic - Energy saving	go (NIM), lea, thermal) per aquarer foot	Lifec	sycle en ante KWh net per oquare foot	Particle retail Sector — Multi- form By (SMAG)	2016	45,220,154	9,419,740	10.28	12	Ω	22	5.0	7.6	7.8	8.0	9.9	Somework field Mit solegy. Somework field with solegy of Mit period and assure the diperiodoses independ by the energy upon healing of MI sounds.	for Ell "Gregg saling" of Blogdo MT salings. Notice saling mithods to MT saliness for insiste Gregg Reports, as this motic salines is seared leff oursign per square face, holised all proprios.	ASS, the set of courts plants quare brough a for the main broken by agent and support to the court plants and the court plants brough a principle to the bit success that collection (C.S. for the 20/20/20/20/20/20/20/20/20/20/20/20/20/2
PGBS	AOI RI	94F2 05	idecycle NET Th	OS: Depth of interve Per square for	ntions: Me	ofic Snergy swing	ge (Fath), Ive., themself per aquare face	Lifec	cycle en ante Therm net per square foot	Ansidential Sector – Multi- formity (RAAT)	2016	1,815,288	9,419,740	11.05		0.10	024	0.4	0.5	0.5	0.8	10	Numeror: Total Mit solege. Concentrator: Total market of single Mit precise and except the of perforgant inheritals by the average upon burget of Mit accounts.	For CD "Cong casing" i Blocket NT contigs. Notice coding mithod to MF continent for insere Georgi Reports, at this motic offers to control MF observe Georgian Stad, motest of projects.	ACL flow out worship sides a space holding of the form and infolling program entitionary, and elements for wavening quantities being a retirizant to self-under space first, Spanfoling, CASS and the 2019-202 DECEPT become foundation and stated. Chamachinesis and stated and the 2019-202 DECEPT become foundation and self-under Chamachinesis and the self-under the 2019-202 DECEPT become foundation and self-under the 2019-202 DECEPT become foundation and self-under the 2019-202 DECEPT become foundation and self-under the 2019-202 Operation form the 2019-202 DECEPT become foreign self-under for many information, we FAGEL but if 2, 2019 Revised Medicine Stilling, which provides exclusive desirate to the object to the 2019-202 and self-under ACLS at all under this information from vendors to separe on this matrix in the future.
PGBS	AOI BI	isafa Ps 4	Precent	P1: Penetration of efficiency programs eligible market: Pen Participation	energy in the Met	Percent of pa property)	rticipation relative to eligible population (by un	init, and Pero pop.	cent of participation selective to eligible solution by property	Residential Sector – Multi- family (RMS)	2016	20,517	2,191,272	0.94%	0	0.276	0.28%	0.95%	095N	0.95%	0.98%	1.02%	numeration Number of Assessment MF projects. Secondarder: Total number of unique accounts and premise Bib in the MF segment	Persignals is defined as the first instance of participation. MSLE assumes project reparticipating property for this completion titing.	AGEA has not interestably invaled and requested the centre of ordinary imprefact content disrupally proposed in compact on the centre of the centre of the information moving (travaler to copy or to the centre of proposed in centre of the proposed and centre of the centre of proposed in proposed in centre of the centre of proposed in centre of the cen
PGBE	AOI RS	isefe Ps-L	U Percent	P1: Penetration of efficiency programs eligible market: Pen Participation	nergy in the ent of Me	Percent of pa property)	eticipation relative to eligible population (by un	anit, and Pero popu	cent of participation relative to eligible sulation by unit	Residential Sector – Multi- family (RMF)	2016	10,340	2,191,372	0.47%	0	2.07%	0.19%	0.48%	0.48%	0.48%	0.50%	0.52%	Numerator: Number of downstream participating MF units (unique account and premise ibn) Denominator: Total number of unique account and premise Ds in the MF segment		PGET has not historically tradiced and reported the number of unique units treated through programs that work with MC customers. PGEE will track this information moving forward to report on this restrict, for each, we believe the number of unique premise and account the provides the closest estimate of the number of units.
PGRE	AOI RI	italf4 P2	. Percent	P2: Penetration of efficiency programs of square fiet of el- graphic field of square fiet of el- population	nergy terms Mel	oic Percent of sq	ywre feet of eligible pagulation participating (br	Py property) Parsi	rcent of square fixed of eligible population Scisparing (by property)	Particleratial Sector — Multi- formily (RMAF)	2016	9,415,257	1,447,565,200	13.996	a	2.07%	0.29%	0.66%	0.66%	0.66%	0.68%	0.72%	Numerator Square Mostage of participating left customers junique account and juniciae SQL Beautomator Square Nutages of all slightle excessives		Add die neu on overeig einer von der keine das fein ein mit eine Angelein der Stelle der
PGRE	AGI RI	IMF4 P3: DI	MC Percent	P3: Penetration of a efficiency programs eligible market -	nergy in the Me	tric Percent of pa	rticipation in disadvantaged communities	Pero	oent of participation in disadvantaged	Residential Sector – Multi- family (RMF)	2016	3,527	268,284	131%	0	0.00%	0.00%	134%	134%	1.34%	1.38%	1.6%	Numerator: Number of participants in disadvantaged communities (unique account and premine IDs) Decominator: Total number of unique account and premine IDs in disadvantaged	DAC customers defined in accordance with 0.18-05-041	
-	_	isera pa		eligible market - Pit: Penetration of efficiency programs HTR market	nergy in the Me	tric Percent of pa	rticipation by customers defined as "hand-to-re	reach" Pers	cent of participation by customers defined :	Residential Sector – Multi- family (RMF)	2016	1,875	172,021	1.09%	0	0.00%	0.00%	1.11%	111%	1.11%	1.54%	1.20%	Numerator: Number of HTR MF participants (unique account and premise (Ds.) Denominator: Total number of MF HTR customers (unique account and premise (Ds.)	HTR customers defined in accordance with 0.18-05-041.	Since PG&E does not collect language data, this metric identifies residential customers as HTRI of they meet the geography and income and geography and housing type-criteria.
		mars es		MS Rendmarks MS Rendmarks Penetrasion			end-marked multi-family properties relative to t		overt of benchmarked multi-family propertie eive to the eligible population	Sentidential Sector – Multi- family (BMF)	2016	503	2,195,272	12.70%	0	0.16%	0.25%	0.02%	coes	0.05%	0.07%	0.12%	Disj. Name your Total number of multibenity properties benchmarked on Furthio-Monager using PASET yourst. Doministers: Total number of usings account and generals Dis in PASET service area.		FACE consequences to signify the southern for the properties from the American consequences (properties). The solution of the properties of the american forces in Cartillation, and ARD presentation from the California Seepe forces in Cartillation, and ARD presentation from the California Seepe for the number of mind-finally properties with these or more with in its unicide area. The american of unique data Cartillation (properties for with the best and as a propertie on this figure. ARCS Enterior as stated or of short and properties for white the properties for white the properties for the control of mind-finally seet, facilities, and properties in its service area usual earlier and more consistent and securities reporting of this nextre, we will service white for mind-finally seet, facilities, and properties in its service area usual earlier more consistent and securities reporting of this nextre, we will approve should definite and the order pages of the properties in its service area usual earlier more consistent and securities reporting of this service, we will not seen the consistency and the consistency of the consistency and
PGES	AOI RI	merc ac	Percent	Benchmarking of Properties	NTR Med	tric Percent of be	enchmarking by properties defined as "hard-to-	-reach" Peno	cent of benchmarking by properties defined hard-to-reach"	Residential Sector – Multi- family (RMF)	2016	Ω	172,021	49.21N	0	0.06%	0.28%	0.04%	0.09%	0.06%	0.06%	0.08%	Numerator-Total number of multitamily WTR properties benchmarked via Portfall obstager using PGER's portal. Decominators Total number of unique WTR AFF account and premise IDs in PGER's service area.	This metric captures properties benchmarked within the calendar year	participating in salicitations. Illicone PAGE does not collect language data, this metric identifies multifamily customer that herchanshed as ARIE if they meet the geography and olicitate and geography and olicitate and properties of the sumber of multi-family units, buildings, and properties in this service ware send enable more consistent and accurate reporting within energy, as with provides units of terms for the olicity and other services.
PGBS	AOI R	isere uc	PAC Levelized (S/kW)	Out per unit say	ed Me	Leveland cos and PAC)	t of energy efficiency per kWh, therm and kW (a	Juse both TRC PAC	Curvelland Cost (\$/kW)	Residential Sector – Multi- family (RMF)	2016	\$ 8,729,541	18,653	\$ 468.00	271	\$ 237.18	\$ 1,124.99	\$ 468.00	\$ 469.00	\$ 468.00	\$ 468.00	\$ 468.00	PAC cast per WWh or per thems or per KW is (PAC Cast x Sinstric Sametts/Total Benefits) Whocks Mr KWh or PAC Cast x Sax Sendits/Total Benefits, URsiçot hen thems or (PAC Cast x Sinstric Benefits/Total Benefits), URsiçot bet KW respectively. The compact of the compact of the compact of the compact of the compact manifolds value for TBC or PAC Cast par KW.	Levelland costs are reported by sector consistent with polmary sector groupings in CDAKS PROGRAM specifications.	

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PΑ	Name	Parific (los sed	Electric

March March Table 19	Form both Till. And Lamelland Good (E) (Marrier) John both Till. And Lamelland Good (E) (Marrier) And Good (E) (Marrier)	Recipional Carlos - Multi- and Carlos (Multi-	2016 \$ 2016 \$ 2016 \$ 2016 \$ 2016 \$ 2016 \$ 2016 \$		8xxxxxivistar 46,200,154 1 1,855,288 1 18,653 1 4,855,288 1 5,855,288 1 5,855,288 1 5,855,288 1 5,855,288 1		5 0.11 5 0.00 5 0.00 5 0.00 5 0.00 7 0.01 7 0.01 7 0.01 7 0.00 7	N/A - Indicator	0.00 5 1 1 1 1 1 1 1 1 1	Teem Surget 0.39 \$ 1.04 \$ 478.84 \$ 0.39 \$ 1.07 \$ 1.07 \$ 1.08 \$ 1.09 \$	0.50 S 1.04 S 0.78.34 S 0.10 S 1.07 S 0.10 S		www.regr.(D38 stat)	Manufacture of the control of the co	They behaviour social and an expected by our or consistent with principle propagation of the principle of t	Press beginning. Field with our origing partition and account (E. E. y years) for later continue from the continue of the con
133 PAGE AND BASE SC PROCESSING CONTINUENCE SCANNESS CONTINUENCE SCANNES	Flore teach Tic. All Learnined Coard (School) Flore teach Tic. Social Learnined Coard (School) Flore teach Tic. Annual Learnined Coard (School) Annual Learnined Coard (School) Tic. Tic. Annual Learnined Coard (School) Annual Learnined Coard (School) Tic. Tic. Annual Learnined Coard (School)	Nacional Annie 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2016 \$ 2016 \$ 2016 \$ 2016 \$	1,006,000 8,002,005 4,002,005 1,008,005 1,008,005	1,855,288 1 18,652 2 66,330,554 1 1,855,288 1 N/A indicator	5 490.24 490 5 490.24 490 5 5.00 5 5 5.00 5 10 10 10 10 10 10 10 10 10 10 10 10 10 1	5 0.68 5 548.64 5 0.37 5 1.30 N/A-Indicator	5 L48 5 5 L36819 5 5 0.36 5 5 L80 5 N/A-Indicator	. 1.66 S . 478.34 S . 0.59 S . 1.67 S . N/A-todicater N/	104 \$ 478.34 \$ 0.29 \$ 1.67 \$	1.04 \$ 478.14 \$ 0.19 \$	164 S 478.34 S 6.18 S	104 478.34 0.19	Amendity Many and the State of 1976. Care of State Many (Miny State Many), but the manifold of the State Many (Miny State Many) (Miny State Many), but the manifold of the State Many (Miny State Many), and the State Many (Miny State Many), and the Miny State Many (Miny State Many), and the State Many (Miny State Many), and the state Many for the State Many (Miny State Many), and the State Many (Miny State Many), and the state Many for the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State Many (Miny State Many), and the State M	control cash are required by under consistent with privary senter grouping in colored resolutions. The control resolution of control cash are required by under consistent with privary senter grouping in COSM PROCESS or senter control with privary senter grouping in COSM PROCESS or senter control with privary senter grouping in colored cash and control cash are required by under consistent with privary senter grouping in colored cash and cash are required by under consistent with privary senter grouping in colored cash and cash are required by under consistent with privary senter grouping in colored control cash and cash are required by under consistent with privary senter grouping in colored conceptual cash are required by under consistent with privary senter grouping in colored conceptual cash.	stack in PG&E's service area. PG&E will use unique premiee and account ID as a proxy for total uniet in the MF segment until a study provides more accurate information about the MF building
PRIASE AND BASE SC TECHNISHING CONFIDENCE STATES AND ST	y Jose Nath Tel. To Classified Coat (\$5.000) To Classified Coat (\$5.000) Your Sun Tel. To Classified Coat (\$5.000) Your Sun Tel. To Classified Coat (\$5.000) Analysis Associated Coat (\$	Assistant factors Multi- month (MMI) Assistant factors Multi- Multimont factors Multimonth Multimont factors Multimonth Multimonth Multimont factors Multimonth Mult	2016 \$ 2016 \$ 2016 \$ 2016 \$	8,933,435 8,933,435 1,938,805 8,0A indicates	18,653 d 46,330,154 d 1,815,288 d N/A - Indicasor	5 0524 064 5 5.00 0 5 1.07 1 NA-vidane NA-vidane	\$ 0.17 \$ 1.30 N/A - Indicator	5 1,369,19 5 5 0,26 5 5 1,80 5 N/A-Indicator	. 0.30 \$	0.99 \$	0.19 \$	019 5	1.07	This case per table are of them or per table in DEC case is Service Consoling. The all tables in the case in CEC case is Service Consoling. The all tables is the case of the CEC case is Service Consoling. The case is the case of the CEC case is Service Consoling. The case is case in the case in the case in the case of the case is the case of the case of the CEC case in the CEC case is the CEC case in the CEC case in the CEC case in the CEC case is the CEC case in the CEC ca	And the second s	stack in PG&E's service area. PG&E will use unique premiee and account ID as a proxy for total uniet in the MF segment until a study provides more accurate information about the MF building
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PASE AS DESTRUCTION TO THE SECOND SEC	to having about and gas order and an	Recolored Gentar - Marillo - N/A - 1 Recolored (Sector - Marillo - N/A - 1 Recolored Gentar - Marillo - N/A - 1 Recolored Gentar - Marillo - N/A - 1								(A-Indicator I	N/A - Indicator	N/A - Indicator I				stack in PG&E's service area. PG&E will use unique premise and account ID as a proxy for total units in the MF segment until a study provides more accounts information about the MF building
FIGURE AND GROTE G	ring stage part. Average electric and gen stage part square final.	Recidential Sector - Multi- floring (Sector)	1 - Indicator II	N/A - Indicator	N/A - Indicator	N/A - Indicator N/A - Indicator	N/A - indicator	N/A - Indicator	N/A - Indicator N							stack in PGEE's service area. PGEE will use unique premise and account tO as a proxy for total units in the MF segment until a study provides more accurate information about the MF building stock in PGEE's service area.
monato banga giros par ang	s, electric, and Sert year annual KW gross.	Commercial Sector (C) 2								(A-Indicator	N/A - Indicator	N/A-Indicator	N/A - Indicator	tementary: Total left everyy was from PASE distances (per + sharing) and the PASE distances (per + sharing) and the sharing of the sharing every foreign sharing and sharing a		Action and committy called square footings data from multi-floring years. The square five of profession of the square footings of the square footing of t
PGE AS D SS are Strong being: Next Strong being: Next Strong grown and design grown and per media.			2016	N/A	N/A	34,271 28,643	27,107	24,090	29,466	21,247	28,985	27,436	41,653	baseline data is reported casolinest with primary sector groups in CCDASC PROCEASE specification and signs with softwarenests reported in 2016 Annual Report. Turgets were set sales the 2018 Petential and Goale Study, consistent with CPUC-adopted goals in 0.17 08-015.	None	Since the Patential Study does not distinguish guildic sector emergy savings patential from commercial sector energy savings potential. PGEE analysed the control of usings additionment in the public sector or solvies to the commercial sector and applied that ratio to the Potential Soudy data to distinguish herwen the teach that in patential sector is the sector of the sector or solvies and position of the potential Source that in sector Source Source sector of the sector of the Potential Source targets with the updated based on the next vention of the Potential Source sharingshing between commercial and public sector energy using potential.
	s, electrics, and First year annual KW net C	Commercial Sector (C) 2	2016	N/A	N/A	25,531 20,289	20,048	27,010	20,467	21,913	20,023	36,180	29,120	Baseline data is reported catalonises with prinsips senter groups in CDARS. Baseline data is reported catalonises with policy senter groups in CDARS. Baseline data senter senter groups in 2016 Annual Report. Togets were not using the 2016 Protected and Goals Study, consistent with CPUC-datgreed goals in 0.37-08-035.	None	Since the Presential Study does not distinguish guildic sector energy saving patential from commercial enter energy saving patential. PAGE analysed the raction of savings advisionment in the public sector ordivise to the emmedial vactur and applied that racio to the Potential Study does no distinguish between the tour. This impression PAGE has estimated filters energy saving potential. Saving targets with the updated based on the end version of the Nesterial Study which distinguishs between commercial and public sector energy saving potential.
PGEE AGS CE SE With SE Georgy Savings Mesic First pair amount and Mincylor en untell pine-evaluate demand savings (gross and net)	i, electric, and Ainst year annual Rith gross	Commercial Sector (C) 2	2016	N/A	N/A	190,599,356 166,943,583	149,196,886	263,651,543	153,423,399	162,781,870	156,207,078	190,712,002	213,174,618	Baseline data is reported continues with primary setter groups in CEDAS PROCEAN to reflectation and aligns with achievements reported in 2016 Annual Report. Torgets were set sales the 2018 Potential and Goals Study, consistent with CPUC-adopted goals in 0.17-08-025.	None	Since the Patential Study does not distinguish guidic sector energy savings patential from commercial sector energy savings potential. PGEE analysed the patential from commercial sector energy savings potential. PGEE analysed the ratio of savings advantment in the public sector ordivate to the commercial sector and applied that ratio to the Fotential Study does not distinguish between the trac- tion and public that ratio to the Fotential Study does not distinguish between the foton This represent PGEE That selections of the Potential Study and This represent PGEE That selections of the Potential Study with Studypalsh between commercial and public sector energy saving potential Study and the PGEE This PGEE THE STUDY
PAGE ANS CL SS SSAN, SS. Deep Sodings Mexic. First pair service and Milliogram area (per medical control great and mill	s, whereic, and First year annual little-net c	Commercial Sector (C) 2	2016	N/A	N/A	564,632,910 110,281,086	110,948,791	129,596,796	108,633,838	116,136,360	111,005,104	138,279,541	153,068,910	Baseline data is reported condinent with primary sector groups in CEDMS PROCEMM specification and aligns with achievements reported in 2016 Annual Report. Turgets were set using the 2018 Potential and Goals Study, consistent with CPUC adapted goals in 0.17-06-015.	None	Since the Potential Study does not distinguish public sector energy savings gareetial from commercial extor energy savings potential, PAGE analysed the ratio of unlengt advisorment in the public sector ordinate to the cameroid sector and applied that ratio to the Potential Study data to distinguish between the too. The public sector of the Potential Study data to distinguish between the too. The public sector is set to be provided to the public sector energy savings potential, statinguishes between commercial and public sector energy savings potential.
PGEE ASS CI SI Them SI Surgy Sodings Ments: String per smolal and Bingsin as some liper media demand caving gives and red.	s, electric, and first year annual Therm gross c	Commercial Sector (C) 2	2016	N/A	N/A	4,145,597 6,256,167	4,649,260	2,378,050	2,526,502	2,867,256	2,769,529	3,664,601	4,045,123	Baseline data is reported condinate with primary sector groups in CEDMS PROCEDAN specification and aligns with achievements reported in 2016 Annual Report. Turgets were set using the 7018 Potential and Goals Study, consistent with CPUC adopted goals in 0.17-06-005.	None	Since the Potential Study does not distinguish guildic sector energy savings goneenia from commercial sector energy savings potential, PAEE analysed the potential from commercial sector energy savings potential, PAEE analysed the saction of usualing additioners or the public sector or fastives to the commercial sector and applied that cross to the Potential Study does to distrigate the between the two- tages with the sector of the sector of the Study and the Study and The sequence PAEE has extended to the sector energy saving potential. Livings suggest with the sector of the Study and the sector energy saving potential study public sector commercial and public sector energy saving potential.
MALL ASS CL SL Stem St. Swept Sunings Mexic Stringer around and Bringine around per model and manufacture of the per around and glass and red	i, electric, and Sirst year annual Therm net	Commercial Sector (C) 2	2016	N/A	N/A	3,012,184 4,008,276	3,065,209	2,294,589	2,128,205	2,417,300	2,309,165	2,043,834	3,401,486	Baseline data is reported consistent with primary sector groups in CSDAS. PROCEENED and Elegent with achievements reported in 2016 Annual Report. Turgets were set using the 7018 Potential and Goale Snady, consistent with CPUC-adopted goals in 0.17-08-025.	None	Since the Potential Study does not distinguish guidic sector energy savings gonethic from commercial sector energy savings potential. PAEA analysed the color of usualing advisorment in the public sector radiaves the the commercial sector and applied that ratio to the Fotential Souly does not distinguish between the trac- tion in the sector of the sector of the Soulinguish sector of the Soulinguish that is represented that article to the extreme energy savings potential. Savings targets with a updated based on the east section of the Potential Saving which distinguishes between commercial and public sector energy saving potential.
PGEE ASS CI SI SW St. Deep looking. Mexic STITE per service and and Brogistic revisit (per model on model control plants and red).	, electric, and Mergele avanta ION gross.	Commercial Sector (C) 2	2016	N/A	N/A	368,217 307,624	298,180	377,692	315,604	225,750	310,646	400,969	445,129	Baseline data is reported condinate with primary sector groups in CEDMS PROCEEDING and aligns with achievements reported in 2016 Annual Report. Turgets were set using the 2018 Potential and Goale Snady, consistent with CPUC-adopted goals in 0.17-08-025.	None	Since the Potential Study does not distinguish guildic sector energy savings gostetial from commercial sector energy savings potential, PAEE analysed the potential from commercial sector energy savings potential, PAEE analysed the saving of values guildiness and the saving saving saving saving saving and applied that ratio to the Forestatal Study data to distinguish between the teach that separates PAEE has electrical Study data to distinguish between the teach that separates PAEE has electrical Study data to distinguish between the Study separates and several sections are separated to saving sa
MALE ASS CL SI SIE SE Scripp being Mests Stripp sensed and Billington execution per melalic mental and significant and sensed per melalic mental and sense per m	, electric, and Mergele avanta low net	Commercial Sector (C) 2	2016	N/A	N/A	277,526 211,136	225,062	303,287	235,117	250,125	231,276	298,711	332,354	Baseline data is reported consistent with primary sector groups in CEDAS. PROCEEDING the statement of the properties of CEDAS. PROCEEDING the STATEMENT OF THE	None	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential. PAEE analysed the ratio of casings activatement in the public sector relavise to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PAEE both sectionates of these energy savings potential. Survige targets with the updated based on the near vention of the Potential Study within distinguished between commercial and public sector energy savings potential.
PGAL ARS CI SI such SI Deep Sorings Merci. Entry or annual and Mingride in water (per makes) and manual and mingride in water (per makes).	, electric, and Lifecycle avanta looks, gross.	Commercial Sector (C) 2	2016	N/A	N/A	1,995,793,417 1,698,780,436	1,571,861,994	1,733,001,735	1,597,045,392	1,694,482,665	1,626,042,175	2,006,041,463	2,219,047,467	Baseline data is reported coolinate with primary sector groups in CCDAS PROCEAN questions and aligns with achievements reponde in 2016 Annual Report. Turgets were set sales the 2018 Parential and Goals Study, consistent with CPUC-adopted goals in 0.17-08-025.		Since the Patential Study does not distinguish public sector energy savings parential from commercial sector energy savings potential. PAEE analysed the saving of cassing soldierment in the public sector relative to the commercial sector and applied that ratio is the Potential Soudy data to distinguish between the teach This represents PAEE has estimated from energy saving potential. Solving targets will be updated based on the seat version of the Potential Soudy which distinguishs between commercial and public sector energy using potential.
AGE OI II such III Deep Sunge Ment Stripe years and and Register are settled as each give which as each give which as each give as and and register as and ready.	i, electric, and Lifecycle awante looks net	Commercial Sector (C) 2	2016	N/A	N/A	1,514,448,518 1,120,115,279	1,192,740,528	1,294,579,281	1,211,904,489	1,285,827,843	1,233,893,002	1,622,748,661	1,683,884,454	Baseline data is reported continues with primary sector groups in CEDAS RECORDAR specification and signs with softwarenests reported in 2016 Annual Report. Turgets were use using the 2018 Potential and Goale Study, consistent with CPUC-adopted goals in 0.17-08-025.	None	Since the Petential Study does not distinguish public sector energy savings partested from connectal sector energy savings potential. Polic 24: analyzed the control of savings achievement in the public sector risks to the connectal sector and applied that cycle to the Potential Study data to distinguish between the text. The presence Polic 41: the sectorate of future angree yearing potential. Settling targets will be updated based on the next version of the Potential Study which Settlingsakes to between commercial and public service energy savings potential.
PGEE ASS CE SE Starm St. Steep Solings Ments Streep should add Blogist award per model and manual and Blogist award per model and manual and gloss and red.	, electric, and Mergele avanta Therm grass.	Commercial Sector (C) 2	2016	N/A	N/A	48,791,669 73,600,683	61,235,086	45,131,660	30,334,061	34,805,324	32,595,882	43,130,386	47,608,928	Baseloo drisk is reported consistent with pointary sector groups in CESAES. PROCESSMM specification and silges with achievements repromote in 2016 Annual Report. Torgets were ore using the 2018 Potential and Goals Study, consistent with CPUC-designed goals in 0.37-08-005.		Since the Peternial Study does not distinguish public sector energy savings potential from connected sector energy savings potential, field, analysed the control of savings solvenimes in the public sector of since the disconnection sector and applied that ratio to the Peternial Study data to distinguish between the loos. The public sector of the Study St
PGEC ASS CL SL Stamm St. Deep Sorting. Mency Company per secure and filterplane are the per medium of the plane are the per medium of the plane and sorting (plane and and the plane and the	s, wheches, and Mergele as anta Therm net	Commercial Sector (C) 2	2016	N/A	N/A	34,617,563 45,436,130	19,440,876	29,922,871	22,033,413	25,289,692	23,684,115	21,228,476	34,592,577	Baseline data is in reported consistent with primary sector groups in CCDMS. PROCEMAN specification and aligns with activewenest repromote in 2016 Annual Report. To green were set using the 2018 Potential and Galal Study, consistent with CPUC using peed gaals in 0.17 04-005.	None	Since the Patential Study does not distinguish public sector energy savings patential from connectual sector energy savings patential. PAGE studyed the ratio of aveing subservant of the public sector of this to the sameword sector and of aveing subservant to the public sector of this to the connected sector. The represent PAGE's best estimates of future energy saving patential. Savings suggested also spaded used not here seet write of the Penetral Studyed suggested allow spaded used not here seet write not the Penetral Studyed subservant seets of the PAGE sector of the Penetral Studyed studyed subservant sectors and subservant sectors are subserved to the PAGE sector of the PAGE sector of the Penetral Studyed studyed subserved sectors and sector energy saving patential.
PGES ASS CI S2 Percent Securit Sectoral Metric First per annual and Mingste en write (pro-evalual Sectoral Metric demand savings (gross and ref.) is a percentage of the sectoral secto	i, electric, and Percent first year annual KW gross C	Commercial Sector (C) 2	2016	34,271	13,673,625	106.60% 0	0.21%	0.29%	0.21%	023%	0.21%	0.27%	0.30%	Numerator in Metric C.1. Decominator in Total commercial usage from PGES database Projected extoral usage derived by analyzing the Soncasted annual percent change in energy use thomic CSS sales data (as presented in the "Mod" scenario from the Soncasted and Goods Goods.	None	
PGSEE AGS CL S2 Percent Securit Sections Medic Services and Medic Serv	i, viectoic, and Percent first year annual KW net C	Commercial Sector (C) 2	2016	25,531	13,673,625	99,39% 0	0.15%	0.23%	0.15%	0.16%	0.15%	0.19%	0.21%	Numerator - Mercic C1 Denominator - Total commercial usage from PGGE database Projected sectoral usage derived by analysing the boscosted annual percent projected sectoral usage derived by analysing the boscosted annual percent places are proposed to the project of the bits demonstrated annual percent than bits demonstrate sectoral boscosted or the bits demonstrate sectoral between the project of the bits demonstrate sectoral boscosted or the bits demonstrate sectoral between the project of the bits demonstrate sectoral between the project of the bits demonstrate sectoral between the project of the bits demonstrated by the bits demonstrat	None	
PGEE AdS CI S3 Percent S2-Percent Control Section Medic Strip per amount and Mingrise reaching per working and managing spream and only as percentages.	i, electric, and sectoral usage Percent first year annual kWh gross	Commercial Sector (C) 2	2016	190,599,356	34,292,560,394	101.92% 0	0.48%	0.52%	0.64%	0.47%	0.45%	0.56%	0.62%	away the Binnershi and Corbs Corush. Numerator - Metic C C Bosonisator - Rotal commercial usage from PG&C database Projected exteral usage derived by analysing the forecasted annual percent change in energy use from CSC sale data just persented in the "Med" scenario from	None	

Attachmer	t 4, Table 19	
PA Name	Parific Gas and Electric	

Attachmen PA Name: Reduct Ver	t 4, Table 19 Pacific Gas a ur: 2021	nd Electric														1		1						
index	PA A1	AttA	Method r Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Year		Denominator	2016	2017		2019			2020	Mid Term Target (2023-0025) Cumulative	Long Term Target (2030-2020) Cumulative	Methodology	Key Definitions	Proxy Saplanation FLAG
154	PG&E	A05 C1	52	Percent	S2: Percent Overall Sectoral	Metric	First year annual and lifecycle ou 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	144,632,910	24,292,560,394	89.42%	0	0.36%	0.42%	0.31%	0.34%	0.32%	0.40%	0.44%	Numerator + Metric C1 Decominator + Total commercial usage from PG&E database Note Note		
					Savings		demand savings (gross and net) as a percentage of overall sectoral usage															Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CSS sales data (as presented in the "Mid" scenario from the 3619 Binnantial and Chalc Gradui		
155	PGES	A05 C1	52	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle on onte (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Secret first was around Therm error	Commercial Sector (C)	2016	4,145,597	1,109,845,444	11816%		0.49%	0.32%	0.23%	0276	0.25%	0.32%	0.37%	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database		
					Savings		demand savings (gross and net) as a percentage of overall sectoral usage															Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CSS takes data jos presented in the "Mid" scenario from who 3618 Binnardial soci-Cooks Crudus		
156	PGBS	A05 C1	52	Percent	S2: Percent Overall Sectoral	Metric	First year annual and lifecycle evente (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectional usage	Command State on control Vision and	Commenced Control Co.	2016	2.012.184	1,103,845,444	111.24%		0.32%	021%	0.19%	0.22%	0.21%	0.27%	0.21%	Sample memory services Las services as juspenseres in the root scenario in the Real Services and Could County Sample Services in Manuscriptor in Medic CL Decominator in Total commercial usage from PG&E database		
			_	Pacas	S2: Percent Overall Sectoral Savings	Metal.	demand savings (gross and net) as a percentage of overall sectoral usage	Prioritina par annua mannina	Commercial sector (C)		1,441,441											Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CSS sales data (as presented in the "Mid" scenario from who 2014 8 Immedial and Grade Grunds		
	PG&E	A05 C1	52	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-onte (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectional usage.			2016	368,217	13,672,625	99.12%		2.27%	3.18%	2.28%	2.42%	2.25%	2.97%	2.22%	the 1616 Emercial and Great Greats' Numerator = Metric C1 Decominator = Total commercial usage from PG&E database		
25.7	Plake	A05 C1	32	Percent	Savings	Metric	demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kW gross	Commercial Sector (C)	2016	860,217	12,672,625	99.12%		22%	218%	2.28%	2446	2298	2.87%	228	Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CSS sales data (as presented in the "Mid" scenario from the 2016 Binnardial and Grain Study.	ie .	
	PGBS		52	Percent	S2: Percent Overall Sectoral		First year annual and lifecucie or onto (pro-evaluation) ass. electric, and	Percent lifecycle ex-ante kW net	Commercial Sector (C)	2016	277,525	13,673,625	89.88N		1.71%	2.56%	170%	1.82%	1.68%	2.16%	2.41%	she 1915 Bitmantial sort Goals Grustul Namerator + Metric C1 Denominator + Total commercial usage from PG&E database		
158	Plake	A05 C1	32	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle or onte (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectional usage	Percent lifecycle ex-ante kW net	Commercial Sector (C)	2016	277,525	12,672,625	89.88%		1.71%	234%	1.0%	1828	1485	2.56%	241%	Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CSS sales data (as presented in the "Mid" scenario from the 2018 Protectial and Goals Study)	ie .	
	PGBS		52		S2: Bernert Duardi Semoni	Metric	Circl was served and Manufa as area (non-positive) and alterial and			2016	1,995,793,417	34,292,560,394	99.63%		5.07%	S.62%	4.62%	4.90%	4.71%	5.81%	6.6%	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database		
257	Pula			Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle or onte (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectional usage	Percent lifecycle ex-ante kWh gross	Commercial Sector (C)	2028	2,000,700,017	1010,000,000	*****		2072	1411	4424		4.714	****	Lux	Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CGS sales data (as presented in the "Mid" scenario from the 2018 Petertial and Goals (Study)	ie .	
400	PG&E		52	Percent	S2: Percent Overall Sectoral	Metric	First year annual and lifecucie so onto (pro-evaluation) ass. electric, and		Commercial Sector (C)	2016	1,514,448,618	24,292,560,394	85.79%		3.85%	452%	3.51%	3.72%	2.58%	4.41%	4.89%	Numerator = Metric C1 Denominator = Total commercial usage from PG&E database		
160	Plake	A05 C1	32	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle or onto (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectional usage	Percent lifecycle ex-antie kWh net	Commercial Sector (C)	2016	1,514,649,618	24,362,560,294	85.785		285	tur.	231%	2.72%	1780	4.6%	6.895	Projected sectoral usage derived by analycing the forecasted annual percent change in energy use from CSC sales data (as presented in the "Musif" scenario from the 2018 Persent and Grash Sharife. Nonvariors - Medic CL. December - Total commercial usage from PG&E disobase.	ie .	
	PGEE	A05 C1			S2: Bernert Duardi Semoni		Circl was served and Manufa asserts (non-policytion) and alientic and	Percent lifecycle ex-ante Therm gross			48,791,469	1,109,845,444	102.47%		6.48%	432%	2.72%	3.12%	2.95%	3.90%	4.31%	Numerone = Metric C1 Denominator = Total commercial usage from PG&E database		
161	Plates	AU5 C1	52	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ense (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	46,701,669	1,102,865,666	102476	٠	6.685	LIIN	278%	4146	2368	2.90%	6.435	Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CSS sales data (as presented in the "Mid" scenario from the SM in the sector of the sector of the sector of the sec	e .	
	PGRE	A05 C1			S2: Bernert Duardi Semoni		Circl was served and Manufa as area (non-positive) and aligned and			2016			99.18%		416%	2.72%		2.28%		2.62%	2.12%	eha Tifri Birmaniai soni Craili Crusiuli Numerator - Metric C1 Denominator - Total commercial usage from PG&E database		
162	PGES	A05 C1	52	Percent	Savings		First year annual and lifecycle or ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectional usage	Percent lifecycle ex-ante Therm net	Commercial Sector (C)	2016	34,617,563	1,109,845,444	99.18%	0	4.16%	2.72%	198%	2.28%	2.14%	2.82%	2.12%	Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CSS sales data (as presented in the "Mid" scenario from the Mid Sector (and the Mid Sector).	•	
163	PG&E				GHG	Metric	Greenhouse gasses (MT CCZreq) Net EWh savings, reported on an annual basis	CO2-equivalent of net annual kitth savings	Commercial Sector (C)	2016	N/A	N/A	69,681		12,098		\$2,187	55,787	\$3,326		73,534	Projected sectoral scange derived by analyzing the fornicated acrossil percent change in energy use from CSS size data jus presented in the "Mod" consort form in the 18th at Internation Consolidate with personal consolidate with personal consolidate with CSS and the CSS of the Consolidate with personal sector acrossite consolidate with consolidate with personal consolidate consolidate with personal consolidate with consolidate	udes COD (in metric tons) but not NOX and PMSD as these are not GHG isolants.	
164	PG&E	AGS CE	02	Percent	02: Depth of interventions by project	_	Energy savings (gross KWh, therms) as a fraction of total project consumption	Percent lifecycle gross kW	Commercial Sector (C)	2016	N/A	N/OL	N/A	that not calculate as Affactment A cases: "sheigy lawings gloss kinn, themse as a fraction of satal project consumption. Does not include gloss kW. None None										
165	PGES	AGS CS	02	Percent	02: Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption	Percent lifecycle gross kitth	Commercial Sector (C)	2016	1,995,793,417	6,573,147,090	70.8%	0	44.4%	13.6%	30.4%	30.4%	21.0%	31.4%	31.9%		sject" is defined as "per application"	
166	PG&E	A05 C2	02	Percent	03: Depth of interventions by project	Metric	Energy savings (gross kilkh, therms) as a fraction of total project consumption	Percent Mecycle grass Therms	Commercial Sector (C)	2016	48,791,469	38,172,471	67%	2	262%	115%	128%	128%	130%	132%	134%	Numerator: Energy savings claimed for commercial projects, consistent with	oject" is defined as "per application"	
-		AGG CA	-		P1: Penetration of energy efficiency programs in the eligible market: Percent of																	is coloristed	Scipation is defined as the first instance of participation. Large customers are ned as those using greater than or equal to 500,000 kWh or 250,000 therms	
167	PGES	AGS CE	P1L	Percent	Participation	Metric	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for large outsamers	Commercial Sector (C)	2016	2,058	11,768	17.49%	0	90.11%	8.50%	17.49%	17.49%	18.36%	18.36N	19.24%	combination of account and premise IDI define denominator: Total number of large customers in the sector (defined by unique combination of account and organics Ibi.	ually.	
168	PGES	AGS CA	PSM	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of	Metric	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for medium outcomers	Commercial Sector (C)	2016	8,267	114,023	7.24%	0	4.29%	145%	7.24%	7.24%	7.60%	7.60%	7.97%	combination of accessor and reaction the Submerstorn Newbord of participating medium customers (defined by unique combination of account and premise (6) area de commercial number of medium customers in the sector (defined by unique combination of accessor and received by the combination of the commercial of the combination of accessor and received by the commercial of the combination of accessor and received by the commercial of the combination of accessor and received by the commercial of the combination of the commercial of the commerci	scipation is defined as the first instance of participation. Medium customers defined as those who use between 40,000-500,000WM or 10,000-250,000 ms annually.	
					P1: Penetration of energy		Percent of participation relative to eligible occupation for small, medium.															nombiostion of account and number of participating small customers (defined by unique combination of account and premier (b)	occursion is defined as the first instance of participation. Medium customers defined as those who use between 60,000-500,000/6Wh or 10,000-350,000 ms annually. Scippison is defined as the first instance of participation. Small customers are need as those who use less than 60,000 kWh or 10,000 therms annually.	
169	PGEE	AGS CA	P15	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	6,685	679,282	139%	0	0.69%	0.18%	5.00%	5.00%	5.00%	5.00%	5.00%	combination of account and premise (b) Benominator: Total number of small customers in the sector (defined by unique combination of account and premise (b)	gets are set at SN in compliance with 0.19-05-041. The methodology for	
																						PGE	Lift does not currently collect square footage data from participants. The nector for this metric multiplies the number of commercial sector participants.	
					P2: Penetration of energy						55,345,434	1,969,884,000	151.91%							5.75%		by the	the average square footage of commercial buildings in PG&C's service territory, was derived by dividing the total commercial square footage in PG&C's service is from CSUS by PG&C's best current estimate for the number of buildings in its	GBE also considered using data from the Commercial Saturation Survey to betermine square footage, but decided on CRUS based on Commission direction.
170	PGBS	AGS CA	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	55,345,434	1,969,884,000	151.91%	0	1.55%	0.57%	5.67%	5.67%	5.75%	5.75%	5.86%	Numerator: square flootage of participating service commercial customers area 5 Denominator: square flootage of the commercial sector the 50 cover	sice area (unique account and premise ID). This numerator was then disided by total square footage of commercial buildings in PG&C's service area from	G&S will require this information to be collected to track this metric moving present.
																						Tanget	ets increase in accordance with participation targets.	
	PGEE	AGS CI	PH		Pt: Penetration of energy						6.747	258.834	26%		0.5%	0.0%	27%	2.8%	2.0%	13%	2.5%	Numerator: Number of commercial HTR participants (unique account and premise	r currenters defined in serverdence with D 18/JS/dd 1	G&E does not currently collect whether a commercial customer neets their facility or the customer's primary language is other than English. As a result, this metric includes the geography and business size criteria.
171	PGES	ADS CE	Pé	Percent	Pit: Penetration of energy efficiency programs in the HTR market	Metric	Percent of participation by customers defined as "hand-to-reach"	Percent of participation by outcomers defined as "hard-to-reach"	Commercial Sector (C)	2016	6,747	258,934	2.6%	0	0.5%	0.0%	2.7%	2.8%	2.0%	3.2%	3.5%	Denominator: Total number of HTR commercial customers (unique account and premise ID)	customers defined in accordance with D.18-Q5-041.	G&E will collect all required information to track HTR customers and will update the metric when this data is available.
172	PG&E	A05 CS	82	Percent	Square Footage of Commercial Benchmarking	Metric	Percent of benchmarked square feet of eliable occulation	Percent of benchmarked square feet of eligible	Commercial Sector (C)	2016	91,209,156	1,969,884,000	13.08%		91.08%	109.11%	6.67%	8.00%	9.60%	9.71%	11.65%	Numerator: Total square footage of benchmarked commercial buildings in Portfolio Manager using MGBS portal Denominator: Total square footage of commercial sector	metric includes buildings benchmarked within the calendar war	G&E estimated the total square footage of the commercial sector using data from
			-	PROBE	Penetration	Metal.	Persons of descriptions of the same set of suggest population	population	Commercia sector (C)					-								Denominator: Total square footage of commercial sector	HEALTHON GOODS OF DESIGNATION OF THE LEGISLAND POR	SUS.
																						Large Numerator: Number of large commercial customers that benchmarked on Plan. 1	e customers are defined consistent with criteria approved in PG&E's Business. Is Specifically, large customers use more than SOO,000 kWh or 250,000 therms	MGEC considered using data on covered commercial buildings from the AB 802 searchmanking presentation, but decided to use the unique combination of sensite D and account ID because the AB 802 data could not easily be broken lown to distinguish between small, medium, and large customers.
173	PG&E	AGS CS	BSL	Percent	Benchmarking Penetration for Commercial Sector	Metric	Percent of benchmarked outcomers relative to eligible population for large outcomers	Percent of benchmarked customers relative to eligible population for large customers	Commercial Sector (C)	2016	415	11,768	16.80%	٥	20.36%	14.83%	SORN	6.10%	7.32%	7.40%	8.88%	Numerator: Number of large commercial customers that benchmarked on Plan. 1 Portfolio Manager using PGES partal Denominator: Total number of large commercial customers (unique account and premise IO) This m	year. metric includes customers benchmarked within the calendar year.	VGES will emplore apportunities to better report this metric using data from assures such as Cottar, but believes a study on the commencial building stock in to sender area would provide more accurate data that would also add value to the
																								alicitation process.
																								MGEC considered using data on covered commercial buildings from the AB 802 senchmarking preventation, but decided to use the unique combination of remains D and account D'because the AB 802 data could not easily be broken lown to distinguish between small, medium, and large customers.
174	PG&E	AGS CS	SSM	Percent	Benchmarking Penetration for Commercial Sector	Metric	Percent of benchmarked outtomers relative to eligible population for medium customers	Percent of benchmarked customers relative to eligible population for medium customers	Commercial Sector (C)	2016	642	114,023	12.99%	0	423%	359%	0.81%	0.97%	1.16%	1.18N	1.41%	Numerator: Number of medium commercial customers that benchmarked on Portfolio Manager using PGES portal Decominator: Total number of medium commercial customers (unique account or 30)	dium customers are defined consistent with criteria approved in PG&E's iness Plan. Specifically, medium customers use between 60,000-500,000 kitth 0,000-250,000 therms per year.	nemise ID and account ID because the AB 802 data could not easily be broken lown to distinguish between small, medium, and large customers.
																						and premise (0) This m	metric includes customers benchmarked within the calendar year.	CSLS will explore opportunities to better report this metric using data from owners such as Colitas, but believes a study on the commencial building stock in is service area would provide more accurate data that would also add value to the
																								olicitation process. 456 considered using data on covered commercial buildings from the AB 802
	PGBS	AGS CS	855	Percent	Search-marking Senatration for	Metric	Survey of banches what outcomes saled us to eliable non-sisting for small	Because of hearthmarked customers relative to	Commercial Sector ICI	2016		479,282	10.32%		0.87%	136%	0.14%	0.17%	0.21%	0.21%	0.25%	Numerator: Number of small commercial customers that benchmarked on Particlio Manager using PGES portal Denominator: Total number of small commercial outcomers (unique account and permitted (in the permitted outcomers) in the permitted outcomers (in the permitted outcomers) and permitted outcomers (in the permitted outcomers) are permitted outcomers (in the permitted outcomers).	ill customers are defined consistent with criteria approved in PG&C's Business s. Specifically, small customers use less than 40,000 kWh or 10,000 therms per	IGEC considered using data on covered commercial buildings from the AB 802 electhranking presentation, but decided to use the unique combination of remains D and account Disheause the AB 802 data colds not easily be broken fown to distinguish between small, medium, and large customers.
1/9	Plake	AUS CS	855	Percent	Benchmarking Penetration for Commercial Sector	Metric	cutomers	Il Percent of benchmarked customers relative to eligible population for small customers	Commercial Sector (C)	2016	661	679,282	10.42%		0.87%	1.44%	0.14%	01/8	0.21%	0.21%	0.25%	Denominator: Total number of small commercial customers (unique account and premise (D) This m	r. I metric includes customers benchmarked within the calendar year.	G&E will explore opportunities to better report this metric using data from aurons such as Colitar, but believes a study on the commencial building stock in its service area would provide more accurate data that would also add value to the
																								plicitation process.
176	PGES	AGS CS	86	Percent	Benchmarking of HTR Properties	Metric	Percent of benchmarking by outtomers defined as "hard-to-reach"	Percent of benchmarking by customers defined	Commercial Sector (C)	2016	457	258,934	16.72%	0	1.02%	1.11%	0.25%	0.30%	0.37%	0.37%	0.44%	Numerator: number of commercial HTR customers that benchammed on Portfolio Manager using PGAE portal Decominator: sotal number of commercial HTR customers (unique account and premise III) This is	customers defined based on 0.18-65-041.	G&E does not currently collect whether a commercial customer neets their facility or the customer's primary language is other than English. As a result, this metric ncludes the geography and business size criteria.
					Properties		and a second second second	Percent or benchmarking by customers denised as "hard-to-reach"															metric captures customers benchmarked within the calendar year.	MGEE will collect all required information to track HTR customers and will update the metric when this data is available.
																						PAC cost per kWh or per them or per kW is (PAC Cost x Kinctric Benefits/Total Baseling)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Baseling)/Lifecycle Net kWh or (PAC Cost x Electric Benefits/Total Baseling)/Lifecycle Net kW expectably Leveli.		
177	PG&E	AGS CG	LC	PAC Levelized Cost (S/kW)	Cost per unit saved	Metric	Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (\$/kW)	Commercial Sector (C)	2016	\$ 105,993,527	277,525 \$	381.90	297	\$ 255.79	\$ 190.60	\$ 381.92	5 381.92 5	381.92	\$ 343.73	\$ 343.73		elized costs are reported by sector consistent with primary sector groupings in ARS PROGRAM specifications.	
																						The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per WW. BMC method little on one thans on per IMM in IRAC Cost v Clarics Baseline Const.		
178	PG&E	AGS CE	uc	PAC Leveland Cost (S/kWh)	Cost per unit saved	Metric	Leveloed cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (\$/kWh)	Commercial Sector (C)	2016	\$ 105,993,527	1,514,448,618 5	0.07	0	s 0.05	\$ 0.04	s 0.07	\$ 0.07 1	0.07	s 0.06	s 0.06	PAC cost per kWh or per thems or per kW is (PAC Cost x Siectric Benefits/Total Benefits/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits), Lifecycle Net therm or (PAC Cost x Siectric Benefits/Total Benefits), Lifecycle Net kW CCDA	elized costs are reported by sector consistent with primary sector groupings in ARS PROGRAM specifications.	
179	PGEE	AGS CG	uc	PAC Levelized Cost (\$/therm)	Cost per unit saved	Metric	Levelland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (S/therm)	Commercial Sector (C)	2016	\$ 16,294,214	34,617,563 \$	0.47	0	\$ 0.51	\$ 0.42	\$ 0.47	\$ 0.47 \$	0.47	5 0.42	\$ 0.42	PAC cost per kWh or per them or per kW is (PAC Cost x Kinetric Benefits/Total Benefits/Utics/six Nex kWh or (PAC Cost x Kina Benefits/Total Benefits/Utics/six Nex kWh or (PAC Cost x Kina Benefits/Total Benefits/Utics/six Nex kWh or (PAC Cost x Electric Benefits/Total Benefits/Utics/six Nex KW COSH COSH (COSH COSH COSH COSH COSH COSH COSH COSH	elized costs are reported by sector consistent with primary sector groupings in ARS PROGRAM specifications.	
		1																				TRC cost per kitth or per therm or per kitt is (TRC Cost x Sectric Security/Total Security/Lifecycle Net kitth or (TRC Cost x Gas Security/Total Security/Lifecycle		
180	PGES	AGS CG	uc	TRC Leveland Cost (S/kW)	Cost per unit saved	Metric	Leveloed cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC sevelized Cost (S/KW)	Commercial Sector (C)	2016	\$ 189,406,526	277,525 \$	682.46	568	\$ 461.94	\$ 426.09	\$ 682.49	\$ 682.49 \$	682.49	\$ 65424		Net therm or (TRC Cost x Electric Benefits/Total Benefits), Ulfscycle Net XW Leveli. CDAI The selected sucked out mathodology from nor populate information to populate.	elized costs are reported by sector consistent with primary sector groupings in ARS PROGRAM specifications.	
\vdash		_		-																		meaningful value for TRC or PAC Cost per kW. TRC cost per kWh or per therm or per kW is (TRC Cost x Electric Benefits/Total)		
181	PGES	AGS CG	LC.	TRC Leveland Cost (S/kWh)	Cost per unit saved		Levelland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC sevelized Cost (S/kWh)	Commercial Sector (C)	2016	\$ 189,406,526	1,514,648,618 5	0.13	0	\$ 0.09	\$ 0.09	\$ 0.13	\$ 0.13	0.13	S 0.11	S 0.11	Benefits) Lifecycle Net kith or (TRC Cost x Gas Benefits/Total Benefits) Lifecycle Net kW CSDAI Net therm or (TRC Cost x Sectric Benefits/Total Benefits) Lifecycle Net kW CSDAI nerowniaelu	slized costs are reported by sector consistent with primary sector groupings in ARS PROGRAM specifications.	
182	PG&E	AGS CG	uc	TRC Levelized Cost (\$/therm)	Cost per unit saved	Metric	Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost (S/therm)	Commercial Sector (C)	2016	\$ 29,117,161	34,617,563 \$	0.84		\$ 0.92	\$ 0.93	5 0.84	\$ 0.84 \$	0.84	\$ 0.76	\$ 0.76	THC cost per kinth or per therm or per kill is (TEC Gost x Blectric Benefits/Tidas) Benefits/Tidacycle Niet kilth or (TEC Cost x Gas Benefits/Total Benefits)/Lifacycle Niet therm or (TEC Cost x Blectric Benefits/Total Benefits/Lifacycle Niet kild COSAI	elized costs are reported by sector consistent with primary sector groupings in ARS PROGRAM specifications.	
-	PGES		N1					Percent of total projects utilizing Normalized			N/A - Indicator	N/A - Indicator	HO. 1	ma /	N/A - Indicator		W0 / T :	MR 1-7	ma	PO		respectively		
193	PGEE	A06 C7	N1	Percent	NMEC	Indicator	Fraction of total projects utilizing Normalized Metered Energy Consumption (NMSC) to estimate savings	Percent of total projects utilizing Normalized Metered Energy Consumption (MMEC) to estimate savings	Commercial Sector (C)	N/A - Indicator	N/A - Indicator	Per CASECC meeting: "Fraction of total custom projects utilizing NMSC to estimate savings".***Class from CMPA (Custom Measure and Project Archive)												

Attachment 4, Table 19
PA Name: Parific Gos and Electric

Part	Attachi PA Naz Budget	M. C. Table 19																					
No.	Index	PA A	EA Page On	tA Method der Code	Units of Measurement	Metric Type	Metric/ Indicator Business Plan Att A Description	Metric Decreary of total swines issues With and thereof	Sector	Year	Numerator	Denominator	2016	2017	2018	2019	2010	2019	2020	Mid Term Target (2023-2025) Cumulative	Long Term Target (2036-2026) Cumulative	Methodology Key Definitions 2m (ASSY) Marriage "Carting of text) current serious derived from NAMS"	Proxy Explanation FLAG
	185	PGES	A06 C	21 N2	Percent	NMEC Satisfaction	Indicator assission indicator improvement in customer satisfaction											N/A - Indicator				ornholo* assafter from CMDA Per CASSCC Meeting: MES will develop and field a consistent survey instrument	
Note	186																	+					informal Survey of Trade Prox found for each of the previous target years. Scale is 1-5, where 5 is high satisfaction. 9-S&E is indicating increase percentage in
	197			_	Percent	Investment in EE	Indicator Fraction of total investments made by ratepayers and private capital	Percent of total investments made by ratepayers and orivate capital	Commercial Sector (C)	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	N/A - Indicator	N/A - Indicator	Per CASSCC meeting: and SD : Numerator: Total incentive amounts	satisfaction over the provious year respected.
	188	PGRE	A06 9	n Si	First year annual WA gross	S1: Georgy Savings	Metric Est year annual and lifecycle en with (pre-environing) gas, electic, and demand savings (gross and ent) across Public Sector programs.		Public Sector (P)	2016	N/A	NGA	11,281	13,656	6,208	7,836	8,500	20,229	9,541	12,223	12,711		Since the Patential Stady does not distinguish guids centre energy savings internal from commercial entor energy saving seterals, PEEE subject to sold of using advantage on the public entor private to the commercial entor and against other scale to the Potential Stady data to distinguish between the box. This sequence PEEE site entormed from energy using patential, Subvigor and public setting and peed to the peed of t
	189	PGRE	A06 9	n 51	First year annual kW set	SE: Knergy Savings	Metric Entry year annual and lifecycle ex area (pre-evaluation) gas, electric, and demand savings (grees and ent) across Public Sector programs	First year annual kill net	Public Sector (P)	2016	N/A	N/A	8,450	10,231	4,609	6,837	6,800	7,304	6,674	8,727	9,307	baseline data is reported accident with printing setter graphs is CEDARS HOSSING approached accident and region with subsection reported in 2014 Arenal Hossing and the contraction and region with subsection reported in 2014 Arenal Hossing and the 2014 Arenal Hossing and the 3.27 of CES. Performance graph in 5.27 of CES.	Good the Potential Study does not distinguish guilds sector energy arrings potential from commercial sector energy sovings pretensis. PEER subject the rest of using activities of the public sector restricts to the commercial sector and the public sector of the public sector restricts to the commercial sector from experient PEER's best estimated refuser energy using potential. Savings regards will be spelled beaution of these sectors and the Potential Study which distinguishes between commercial and public sector energy surings potential.
	190	PGBE	A06 9	n Si	First year annual killsh gross	S1: Snergy Savings	Metric First year annual and lifecycle en actor (pro-evaluation) gas, electric, and demand savings (gross and end scross Public Sector programs.	First year annual KWh gross	Public Sector (P)	2016	N/A	N ₄ CA.	62,037,732	98,781,680	\$7,477,474	55,972,596	49,937,418	52,982,484	50,842,471	62,725,378	69,385,701	baseline data is reported assistant with privary secure groups a GSMAS HSCORM specification and algorithm showment reported in 2014 Annual HSCORM specification and provided in the control of the state of the control of the	Since the Personnal State does not distinguish policy scores werey unkeys constraint have commented under everyg university. Seek a subject to be sall of the seek of the sall of the seek of the this separement. PAGE 1 best estimate of those everyg unaking potential. Savings stages, will be updated board on the seek writer of the Personnal Seek of the stages will be updated board on the seek writer of the Personnal Seek of the distinguishes between commercial and public sector everyg unaking potential.
	191	PGBE	A06 9	n Si	First year annual kWh net	S1: Snergy Savings	Metric First year annual and lifecycle evente (pre-evaluation) gas, electic, and demand taxing a lignors and end score. Public Sector programs	First year annual kWh net	Public Sector (P)	2016	N/A	N ₄ CA.	46,860,705	73,258,568	45,054,858	50,857,650	36,211,279	38,708,920	27,001,701	46,126,514	51,022,970	baseline for in Imperiod assistance with printing sector groups in CSSASS 490-004 upon for the CSSASS and all part with subsement respects in 25th Annual for the CSSASS and all part with subsement respects in 25th Annual sector Experts are on any 2002 for hermit and distribution, consistent with productions group in 3.1° 6/2003.	Since the Protectiol Study does not distinguish quality sector energy savings presented from consecution storce energy savings personal, PEGE shauler the ratio of energy actives ment in the public sector relative to the access excited sector and applied that are for the Protection Study and the Study sector sector and applied that are for the Protection Study and the Study sector This appresent PGES to best estimate of fluxers energy scalings potential. Savings suggest will be updated based on the seat sector of the Protection Study which distinguishes between commercial and public sector energy savings potential.
	192	PGRS	A06 9	n si	First year annual Therm gross	St: Knergy Savings	Metric Exit year zonual and lifecycle ex area (pre-evaluation) gas, electric, and demand taxings (grees and red) across Public Sector programs	First year annual Thems gross.	Public Sector (P)	2016	N/A	N/A	(73,273)	135,020	42,096	27,660	(50,520	(57,865)	(54,304)	(71,855)	(79,316)	Bacified atto is reported assistant with privary setter groups in CEMAS. MODIANI specified grows a first with subsemment reported in 2016 Armal Modiani specified grows and specified grows with subsemment of 2016 Armal Modian Expert Expert sever out of grows 2012 Armanical and decade historia, consistent with Modian State Sta	Since the Petential Study does not distinguish guidic sector energy savings patential him commercial sector energy saving patents, PAGE analysed the sector of the patent sector of the patent sector of the patent sector and applied that can for the Petential Sector of safetypical heavening the This represent PAGE to best enterinal end for energy saving patential. Savings seggers will be updated based on the new sector of the Petential Study which distinguishes between commercial and public sector energy savings patential.
	193	PGRE	A06 9	n Si	First year annual Therm net	St: Snergy Savings	Metric First year annual and lifespile en who give evaluation/gas, electric, and dem and savings (gross and end) across Public Sector programs	First year annual Therm net	Public Sector (P)	2016	N/A	N/A	(25,127)	90,495	47,098	5,882	(41,730) (47,386)	(45,278)	(50,683)	(66,696)	basiline days is reported assistant with griples y settler grapes is CEDME. **POSCAME quantification and digit with information reported in 2014 Areas **Executing the contract of the contract reported in 2014 Areas **Executing the contract of the contract of CEDME (accounted with the contract of th	Since the Patential Study does not distinguish public sector energy savings patential from commercial sector energy savings patential. PAGE shalped the ratio of using advantment in the public sector orders to the scenariosis costs and applied that ratio is the Potential Rasily data to distinguish between the loss. This speciestic PAGE has estimated Rasily data to distinguish between the loss. This speciestic PAGE has estimated Rasily data to distinguish between the loss. This speciestic PAGE has estimated Rasily data to distinguish between the loss. This speciestic PAGE has estimated Rasily and the loss of the loss
	194	PGBE	A06 9	n Si	Lifecycle eo ante kW gross	St: Gnergy Savings	First year annual and lifespile ex arts (pro-evaluation) gas, electric, and demand savings (gross and red) across Public Sector programs	Lifecycle ex-ante KSW gross	Public Sector (P)	2016	N/A	N/A	92,915	145,446	62,460	69,911	105,200	111,917	103,492	123,656	148,710	basilis dro.) - reported principars with gripting water grapes in GEMES. **REGISMAN operations are digit with subsense reported in 2014 Area **REGISMAN operations are digit with subsense reported in 2014 Area **Regisman Stage - Department of Section Study, consistent with Nove **New Section Section Section Section Section Study, consistent with Nove **New Section Sec	Since the Peterdial Study does not distinguish guidat sector energy savings paterial from commercial sector energy savings paterials (PAGE subjused the ratio of using subservate in the public sector crains is the to consecut disease and applied that ratio is the Forestatio Study data to distinguish between the box. This speciality PAGE has entirelized influence energy studying paterials Subsequish for speciality PAGE has entirelized influence energy studying paterials Subsequish distinguishes between commercial and public feetile energy saving paterials.
	195	PGRE	A06 9	n 51	Ufecycle eo ante kW net	St: Gnergy Savings	First year annual and lifespile ex arts (pro-evaluation) gas, electric, and demand savings (gross and red) across Public Sector programs	Lifecycle ex-ante little net	Public Sector (P)	2016	N/A	N/A	69,339	108,992	48,627	62,227	28,272	82,375	77,091	90,320	110,785	basiles des 3- vegende devident ent printip seint gener 3- CEDER HERDRICK general des	Since the Potential Study does not distinguish guilds contin energy surings potential from commercial vactor energy surings potential, FACE subject that control of unless guideliness of the public sector grains to the camma cold sector and guideline for control or the Potential Rody data to distinguish between the house grains will be guideline to control or the Potential Rody data to distinguish between the house grains will be applicated on the tensor energy and the Potential Rody which distinguishes between commercial and public sector energy surings potential.
	196	PGBE	A06 9	n si	Lifecycle en ante kWh gross	SS: Snergy Savings	Metric First year annual and lifecycle en-artin (pro-evaluation) gas, electric, and demand savings (gross and end) across Public Sector programs	Lifecycle ex-ann KWh gross	Public Sector (P)	2016	N/A	N/A	594,051,250	1,015,686,578	515,229,360	577,270,541	532,355,131	564,827,555	542,014,058	668,680,488	729,682,689	Baciline drois in reported assistant with privary setter grappin CEDMS. HOSCHAR specified assistant and privary setter grappin CEDMS. HOSCHAR specified may deep with subsequent operated and beautiful setter to private and settle specified and specified specified and specified specifi	Since the Potential Study does not distinguish guild's centure energy swings paternial from commercial vactor energy swings paternial. Polici subject the control of using activities on the public sector private to the camera cold sector and applies from the Policy and Study and the Study and the Study and the sector of the Study and the Study and the Study and the Study sector surgical will be applied and not the sear sector of the Forestical Study which distinguishes between commercial and public sector energy surings potential.
	197	PGRE	A06 9	n 51	Lifecycle ex-anite kitch net	St: Energy Savings	Medic. Est year annual and lifecycle ex area (pre-evaluation) gas, electric, and demand savings (gross and red) across Public Sector pograms.	Lifecycle awante KWh net	Public Sector (P)	2016	N/A	N/A	451,512,594	751,674,551	403,263,636	520,561,406	403,948,163	428,609,281	411,297,667	607,416,700	561,204,818	baseline dro is imported consistent with printing seator groups in CEDMS HOSSING seator drop with adversarial printing seator groups in CEDMS HOSSING seator drop with adversarial proposed in 2014 Areas New York Company and an in CED Areas CEDMS in CEDMS i	potential from commercial sector energy savings potential, PGES analysed the ratio of auding softwares in the public sector relative to the commercial sector and applied that ratio to the Protectial Rody data to distinguish between the two. This operators PGES the set estimate of them energy saving protection. Coloring the operators PGES the set estimate of them energy saving protection. Coloring distinguishms between commercial and public sector energy savings pomeráni.
Image	198	PGRE	AG6 9	ri 51	Lifecycle ex-ante Therm gross	St: Knergy Savings	Metric First year annual and lifesquire ex-area jars-evaluation/gas, electric, and demand savings (gross and net) across Public Sector poggrass	Lifecycle awards Therm gross	Public Sector (P)	2016	N/A	N/A	(216,569)	1,317,861	115,545	231,255	(594,589	(682,457)	(439,135)	(845,684)	(923,509)	bandler den is inported anniemer olls prinsip venter graper in CEMAS. **REGISTRATE også venter skriver graper in CEMAS. **REGISTRATE også venter skriver også venter skriver også venter og	Since the Potential Study does not distinguish guild's occur energy savings preterial train commercial extra energy savings preterial, PEES subject the sound of values guildware at the guild was contribute to the commercial scarce and the peech subject to the subject of the subject of the This opposess PEES heat extrained of future energy scaling patertal. Savings regards will be spatients and not been seen room of the Potential Study which distinguishes between commercial and public scater energy savings potential.
Part	199	PGRE	A06 9	n 51	Lifecycle ex-ante Therm net	St: Energy Savings		Lifespole awante Therm net	Public Sector (P)	2016	N/A	N/A	(125,588)	821,677	204,629	70,688	(422,028	(495,872)	(464,204)	(65.4,480)			Since the Potential Study does not distinguish guild's sector energy tavings patential both commercial sector energy taving patential, PAGE analysed the still of using quickness in the public sector orders to the sectorical sector and the public sectorical sector of the public sectorical sector properties and the public sector of the public sectorical sector the present and PAGE to the entire sectorical sector of the public sector purpose will be updated based on the new sector of the Potential Study which distinguishes between commercial and public sector energy savings princeful.
Fig.	200	PGBS		2 6					Public Sector (P)	2016	N/A	N/A	20,726	31,811	4,160	5,247	15,962	17,053	16,301	20,309	22,462		
Part	201	PGBS	AGG P	91 036	Percent annual NET kW	Di: 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 - 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	N/A - Indicator	N/A - Indicator	Numerator - Total savings claimed for MF retroifs projects. Denominator - Number of participating properties	
Fig.	202	PGBS	AGG P	9 096	Percent annual NET kWh	Di: Depth of interventions per building	Indicator Average percent energy savings (kWh, kw, therms) per project building or facility	Percent annual net kitth per project building or facility	Public Sector (P)	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	N/A - Indicator	N/A - Indicator	Numerator - Total savings claimed for MF retrofit projects Denominator - Number of participating properties	
Part	203	PGBS	AGG P	91 035	Percent annual NST Therms	Dir. Depth of interventions per building	Average percent energy savings (kWh, kw, therms) per project building or tacility	Percent annual net Therms per project building or facility	Public Sector (P)	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	N/A - Indicator	N/A - Indicator	Numerator - Total savings claimed for MF retrolfs projects Denominator - Number of participating properties	
Fig. 1. Sec. 1	204	PGBS	AGE P	91 95	Annual NET kW	DS: Depth of interventions: Per square foot	: Indicator plan area energy savings (kWh, kw, therms) per project building floo plan area	or Average annual net low savings per project building floor plan area	Public Sector (P)	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	N/A - Indicator	N/A - Indicator		
Part	205	PGBS	AGG P	91 05	Annual NET KWh				Public Sector (P)	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	N/A - Indicator	N/A - Indicator	Denominator: Total number of service accounts participating, x average square	
Fig. 1. Sec. 1	206	PGBS	AGG P	91 05	Annual NET Therms		Indicator Average annual energy savings (WMh, kw, therms) per project building floo plan area	Average annual net Therm savings per project building floor plan area	Public Sector (P)	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	N/A - Indicator	N/A - Indicator	Numearior: Total downstream savings Decominator: Total number of service accounts participating, a average equare	
Fig. 1. Sign 1	207	PGBS	AGG P	9i W1	Annual NET kW		Indicator Average annual energy savings (IWh, KW thenns) per annual flow through project water/exceptor facilities	Average annual Net kW savings per annual flow through project water/wastewater for-linear	Public Sector (P)	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	N/A - Indicator	N/A - Indicator	Numerator: claimed savings from water/wastewater outstoners Decominator: Buesline enters usage as recorded on project applications	
Fig. 1. Sec. 1	208	PGBS	AGG P	9i W1	Annual NET KWh	Water	Indicator Average annual energy savings (IWN), kW therms) per annual flow through		Public Sector (P)	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	N/A - Indicator	N/A - Indicator		
Fig. 1. The control of the control o	209	PGBE	AGE P	9i W1	Annual NET Therms	Water	proper many assessment manner	Average annual Net Therms savings per annual fine through periods	Public Sector (P)	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	N/A - Indicator	N/A - Indicator	Numerator: claimed savings from waterly waterwater outcomers Numerator: blassing agency waterwater outcomers Decominator: blassing agency water agency reported on profits and profits of the saving agency waterwater outcomers	
Fig. 1. The control of the control o	210		AQ7 9	_	1						628											wasserman, exement everify; still gib in reporting on project applications Numeration: Number of public sector unique account and premise libit that participated in as if or program and other or program of participation. Public sector comments are defended by with NSC Codes.	
Fig. 1. Fig. 1	211	PGBS	A07 P	6 P2	Percent	Participation P2: Penetration of energy	Fercent of estimated floorplan area (i.e., ft2) of all Public Sector buildings in indicator participating in building projects—estimate within +/-15% of sector-wide	Percent of estimated floorplan area (i.e., ft2) of all Public Sector buildings participating in	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N,O Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	useronmenters trast number or unique account and premise like in the public sector Numerator: cupums flootage of participating unique account and premise like Decominator: Square flootage of all unique public sector premise and account fix	
The control of the	212	PGRE	A07 P	6 W2	Percent	acoulation	building area, 4/5% of project building area event of Public States water/watersamp flow (i.e., annual average Million Gallon, per Cmy) enabled in notuding water/burstanter programs— selimate within +/ 200; of flow through riligible furnishment furnishes pumping existion),	building projects Percent of Public Sector water/wastewater flow		N/A - Indicator	N/A - Indicator	N/A - Indicator	N/X - Indicator	N/A - Indicator	N/A - Indicator								
24 PAGE AND BY LE WILLIAM CONTROL OF THE PAGE AND BY LE WILLIAM CONTROL OF THE PAGE AND BY LEVER	213	PGRS	AQ7 9	s ic	PAC Levelized Cost (S/kW)	Cost per unit saved	ActiOS of Blow through existent facilities Metric Levelland cost of energy efficiency per kWh, therm and kW (see both TRC and PAC)	PAC Levelized Cost (\$/4W)	Public Sector (P)	2016	\$ 62,824,972	69,239	\$ 906.05	509	S DESAR	\$ 653.12	\$ 906.05	\$ 906.05	\$ 906.05	\$ 825.45 \$		Note them on PACCes is Destric Benefits/Total Benefits/Unlegale Net Wil- respectively The adopted avoided out methodology does not provide information to provides The adopted avoided out methodology does not provide information to provides	
	214	PGRE	A07 9	s uc	PAC Levelized Cost (S/kmh)	Cost per unit saved	Metric Levelland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (\$/KWh)	Public Sector (P)	2016	\$ 62,824,972	451,512,594	\$ 0.14	0	\$ 0.12	\$ 0.08	\$ 0.56	\$ 0.54	\$ 0.54	\$ 0.13 \$	0.12	PAC cost per Valh or per them or per Val's IPAC Cost a Schoric Benefits/Schools Benefits/Schools have Valled for a PAC Cost a Gas Benefits/Schools benefits/Schools have Valled for a PAC Cost a Gas Benefits/Schools have Valled benefits of PAC Cost a Cleanic America Place Benefits/Schools have Valled respectively. GENES PACCHANG specifications.	

Attachment 4, Table 19	
PA Name: Pacific Gos and Electric	

Attachment 4, Table 19 PA Name: Pacific Gas and E Budget Year: 2021	lectric						-			,										1		
Budget Year: 2021 index PA ATAP	AZA F	Method Units Code Measure	of neet Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Year	Baseline Numerator	Denominator	2016	2017	2018	2019	2018	Short Term Target 2019	2020	Mid Term Target (2023-2025) Completive	Long Term Target (2038-2020) Cumulative	Methodology	Key Definitions	Proxy Explanation FLAG
215 PGBE A00		LC PAC Level (5/the		Metric	Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and 9AC)	PAC Levelized Cost (\$/sherm)	Public Sector (P)	2016	\$ (82,123)	125,588	\$ (0.26)	0	\$ 0.25	\$ (1.92)	0 \$ (0.26)	S (0.26) S	(0.26)	\$ (0.26)	\$ (0.26)	Methodology PAC cast per kWh or per them or per kW it (PAC Cost x Kinciric Benefits)/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits)/Total Benefits)/Lifecycle Net Enern or (PAC Cost x Kinciric Benefits)/Lifecycle Net kW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CSDASS PROGRAM specifications.	
216 PGBS A00		LC TRC Level: (S/kr	of Cost Cost per unit saved	Metric	Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelland Cost (5/VW)	Public Sector (P)	2016	\$ 81,844,862	69,229	\$ 1,180.36	929	\$ 1,402.16	\$ 99196	S 1,180.36	\$ 1,280.36 \$	1,180.36	\$ 1,662.32	\$ 1,002.30	TRC cost per killsh or per therm or per kW is (TRC Cost s Sactoric Benefits,/Total Benefits)/Ullecycle her killsh or (TRC Cost s Sac Benefits/Total Benefits)/Lifecycle her killsh or (TRC Cost s Sacrefits/Total Benefits)/Ullecycle Yest kW The adopted availated cost methodology does not provide inflammation to provide.	LevelLand costs are reported by sector consistent with primary sector groupings in CDMAS PROGRAMs specifications.	
217 PGBE A07		LC TRC Levels	id Cost Cost per unit saved	Metric	Levelland cost of energy efficiency per KWN, therm and KW (use both TAC and PAC)	TRC Levelined Cost (S/kWh)	Public Sector (P)	2016	\$ 81,844,862	451,512,594	\$ 0.18	0	\$ 0.17	\$ 0.12	s 0.18	\$ 0.18 \$	0.18	5 016	\$ 0.15	meaningful value for TBC, or PAC, Cost: per VW. TBC, cost: per kikih or per them or per kiki's (TBC, Cost: x Siscotic Benefits),/Total Benefits),/Unicycle fext kikih or (TBC, Cost: x Gas Benefits),/Total Benefits),/Unicycle Net Thems or (TBC, Cost: x Kikincisc Benefits),/Total Benefits),/Unicycle Net KW respectively	Levelland costs are exported by sector consistent with primary sector groupings in CDDAS PROGRAM specifications.	
218 PGBS A07	- 16	LC TRC Levels: (5/the	d Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PMC)	TeC Levelized Cost (5/therm)	Public Sector (P)	2016	\$ (41,849)	125,588	\$ (0.33)	1	\$ 0.37	\$ (2.93)	0 5 (0.22)	s (0.20) s	(0.22)	\$ (0.33)	\$ (0.33)	respectively TPC. Cost per kWh or per theres or per kW is (TPC. Cost s Electric Benefits)/Total Benefits)/blincycle het kWh or (TPC. Cost s Gas Benefits)/Total Benefits)/Elecycle Net Theres or (TPC. Cost s Benefits)/Starl Benefits)/Lifecycle Net kW respectively.	Levelized costs are reported by sector consistent with primary sector groupings in CSDARS PROGRAMs specifications.	
219 PGES ACC	PGI	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 - Indicator	N/A - Indicator	N/A - Indicator	\$ 6,410,202.00	\$9,067,807.00	N/A - Indicator	17170856	N/A - Indicator	N/A - Indicator N/A	A - Indicator	N/A - Indicator	N/A - Indicator	Total amount loaned through PA programs	"Total program backed financing_requiring repayment" r total loan amount	
220 PG&6 A07	97	B3 Perci	Public Sector Benchmark Fenetration Calendar Ve	Metric r	Percent of Public Sector buildings with current benchmark	Percent of Public Sector buildings with current benchmark	Public Sector (P)	2016	472	76,418	13.42%	0	4.77%	4.07%	0.89%	1.07%	1.28%	1.30%	1.55%	Numerator: Number of public sector buildings benchmarked on Fortfolio Manage using PGBS portal Decominator: statal number of public sector unique account and premise IDs	This metric includes buildings benchmarked within the calendar year	PGBS used the number of unique account and pnemise IDs as a proxy for public sector buildings. A study that sheds some light on the building stock and public
221 PGES A07	97	E14 8th	Energy intensity per pub sector building	k Metric	Average energy use intensity of all Public Sector buildings	Average energy use intensity of all Public Sector buildings	Public Sector (P)	2016	41,824,173,748,958	76,418	2	483,536,404	223,052,888	195,331,421	547,307,882	547,307,882	547,307,892	536,361,724.65	519,942,688.18	Numerator: Total sector-level energy use from PG&E database (gas + electric) Denominator: Number of unique public sector account and premise libs		SHOW THERE WORLD BY TERPES OF ESPAIN, WIS TREAT.
222 PGBS A07	P21	B4 Perce	Public Sector Square For Benchmarking Penetration Calendar Year	t in Indicator	Percent of floorplan area of all Public Sector buildings with current benchmark	Percent of floorgian area of all Public Sector buildings with current benchmark	Public Sector (P)	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	A - Indicator	N/A - Indicator		Numerator: Total square footage of public buildings benchmarked within calenda year, in Pertfolio Manager Denominator: Total square footage of all benchmarked public sector buildings	This metric includes buildings benchmarked within the calendar year	
223 PGBS A08	: Ins	S1 8W		Metric	First year annualized and lifecycle ex-anse (pre-evaluation) gas, electric, an demand savings (gross and net) is industrial sector	d Aint year annual KW gross	Industrial (I)	2016	N/A	N/A	10,546	7,998	2,500	1,955	15,760	96,113	16,284	14,422	11,066	Baseline data is reported condistent with primary sector groups in CEDMS PROCRAM specification and siliges with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent wit CPUC-adopted goals in 0.17-09-025.	None	
224 PGBS ADS	ind.	S1 kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-anne (pre-evaluation) gas, electric, an demand savings (gross and net) in industrial sector	d Rint year annual KW net	Industrial (I)	2016	N/A	N/A	7,653	5,199	2,889	1,325	11,675	11,891	12,021	11,071	9,357	Baseline data is reported consistent with primary sector groups in CEDASS PROCEAM specification and sligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Grais Study, consistent wit CPUC-adopted goals in 0.137-08-025.	None	
225 PGRS ADB	and.	S1 kw	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, an demand savings (gross and net) in industrial sector	d First year annual keets gross	Industrial (I)	2016	N/A	N/A	48,200,588	44,751,047	28,870,444	22,553,180	113,151,759	110,069,014	107,052,877	89,234,286	66,704,019	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual laport. Targets were set using the 2018 Potential and Goals Soudy, consistent with CPGC adopted goals in 0.17-09-025.	None	
226 PGBS A08	and	S1 kW	S1: Energy Savings	Metric	First year annualised and lifecycle evante (pre-evaluation) gas, electric, an demand savings (gross and net) in industrial sector	d First year annual keen net	Industrial (I)	2016	N/A	N/A	37,054,341	29,086,751	23,040,384	18,362,190	81,640,361	79,450,954	77,541,577	67,209,198	55,191,766	Baseline data is reported consistent with primary sector groups in CXDABS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Turget were set using the 2018 Potential and Goals Study, consistent wit CPUC-adopted goals in 0.17-0-015.	None	
227 PGBS A08	and	S1 Ther	s S1: Energy Savings	Metric	First year annualized and lifecycle en-anne (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	d First year annual Thems gross	Industrial (I)	2016	N/A	N/A	3,038,179	5,810,077	4,446,419	8,219,935	4,536,165	4,680,459	4,911,927	7,009,364	9,266,394	Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievement reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent wit CPUC-adopped goals in 0.17-09-025.	Worse	
228 PGBS A08	and	S1 Ther	SE: Energy Savings	Metric	First year annualised and lifecycle ev-ante (pre-evaluation) gas, electric, an demand savings (gross and net) in industrial sector	d Aint year annual Them net	Industrial (I)	2016	N/A	N/A	2,127,796	3,673,616	3,360,101	5,425,296	4,217,825	4,449,805	4,647,312	6,708,125	7,304,714	Baseline data is reported consistent with primary sector groups in CSDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets: were set using the 2018 Potential and Goals Soudy, consistent wit CPUC-adopted goals in 0.17-09-025.	None	
229 PGBS A08	and	51 kW	S1: Energy Savings	Metric	First year annualised and lifecycle evanne (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	d Lifecycle ex-ante KW gross	Industrial (I)	2016	N/A	N/A	75,129	90,576	66,122	25,149	112,273	114,790	116,006	102,799	79,689	Raxeline data is reported consistent with primary sector groups in CSDARS PROGRAM specification and aligns with achievement reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Soudy, consistent wit CPUC-adopted goals in D.17-09-02S.	None	
220 PGBE A08	: Ins	S1 8W	S1: Energy Savings	Metric	First year annualised and lifecycle evante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	d Lifecycle www.ante kW net	Industrial (I)	2016	N/A	N/A	53,710	58,880	36,811	16,999	81,474	83,300	84,183	74,555	57,003	Baseline data is reported consistent with primary sector groups in GSDASS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Snudy, consistent wit CPUC-adopted goals in D.17-09-025.	None	
231 PGB5 A08	and	S1 kW	S1: Energy Savings	Metric	First year annualised and lifecycle evanne (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	d Lifecycle awante kWh gross	Industrial (I)	2016	N/A	N/A	429,138,678	575,639,448	359,744,550	218,201,027	1,007,410,869	979,964,629	953,111,406	794,469,219	599,878,118	Baseline data is reported consistent with primary sector groups in CSDASS PROCRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Soudy, consistent wit CPUC-adopted goals in 0.17-09-025.	None	
232 PGBG ADB	i lindi	\$1 kw	S1: Snergy Savings	Metric	First year annualised and lifecycle ex-ante (pre-evaluation) gas, electric, an demand savings (gross and net) in industrial sector	d Lifecycle awante KWh net	Industrial (I)	2016	N/A	N/A	317,604,109	373,991,178	301,762,062	163,093,411	774,450,010	753,250,634	782,707,141	610,750,503		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 Snudy, consistent wit CPUC-adopted goals in 0.17-08-025.	None	
233 PGBE A08	: Ins	S1 Ther	S1: Energy Savings	Metric	First year annualized and lifecycle ex-anne (pre-evaluation) gas, electric, an demand savings (gross and net) in industrial sector	d Lifecycle awards Therm gross	Industrial (I)	2016	N/A	N/A	42,101,250	63,496,533	27,274,929	66,254,250	62,859,441	64,858,972	68,066,515	110,850,361	128,408,006	Baseline data is reported consistent with primary sector groups in CEDARS PROCRAM apedication and sligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent wit CPUC-adopted goals in 0.17-08-025.	None	
234 PGES ADS	: Ins	S1 Ther	s St: Energy Savings	Metric	First year annualized and lifecycle evante [pre-evaluation] gas, electric, and demand savings (gross and net) in industrial sector		Industrial (I)	2016	N/A	N/A	29,338,609	40,115,565	29,355,687	43,322,786	44,023,720	45,434,095	47,670,503	77,634,245	89,930,829	Baseline data is reported conducted with primary sector groups in CEOMS PROCEAMS specification and signs with softwarment reported in SIG Annual Agents. Tragets was ever signed to 2018 Ferration adias Stade, consistent of CHIC-disorped gain in D.1 CHI GRID. Annual State of CHICA CHICAGO GAIN CONTRACT AND ANNUAL STATE OF ANNUAL CHICAGO GAIN CONTRACT AND ANNUAL STATE OF ANNUAL ANNUAL STATE OF ANNUAL STATE OF ANNUAL STATE OF ANNUAL ANNUAL STATE OF ANNUAL STATE OF ANNUAL STATE OF ANNUAL ANNUAL STATE OF ANNUAL STATE OF ANNUAL STATE OF ANNUAL ANNUAL STATE OF ANNUAL STATE OF ANNUAL STATE OF ANNUAL ANNUAL STATE OF ANNUAL STATE OF ANNUAL STATE OF ANNUAL ANNUAL ANNUAL STATE OF ANNUAL STATE OF ANNUAL ANNUAL ANNUAL ANNUAL STATE OF ANNUAL ANN	None	
235 PGBE A08			eq GHG P1: Penetration of energ	Metric	back			2016	N/A	N/A.	17,163	13,391	2,582	1,818		36,800	35,916	31,130	25,564	Calculated using CST, and reported by sector consistent with primary sector ensurings in CSDA65 PROGRAM specification. Numerator: Number of participating large customers (defined by unique	Includes COD but not NOX and PM10 as these are not GHG equivalents.	
226 PGBS ADB	ln3	PIL Perce	eagine market: Percent Participation		and in great dates.	Percent of participation relative to eligible population for large customers	Industrial (I)	2016	170	2,678	6.86%	0	5.73%	3.07%	7.55%	7.55%	7.55N	7.20%	7.07%	combination of account and premise (b) Denominator: Total number of large customers in the sector (defined by unique combination of account and premise (b)	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 PG&6 A08	ini	P1M Perce	P1: Penetration of enery efficiency programs in the eligible market: Percent Participation	e Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for medium outcomers	industrial (I)	2016	299	11,628	2.57%	0	2.43%	036%	2.83%	2.82%	2.83%	2.70%	2.65%	Numerator: Number of participating medium customers (defined by unique combination of account and premise (b) Denominator: Total number of medium customers in the sector (defined by unique	Participation is defined as the first instance of participation. Medium customers are defined as those who use between 60,000-500,000Wh or 10,000-250,000 bterms annually.	
238 PGBS A08	in in in	P15 Percs	P1: Penetration of enem	e 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	302	49,281	85.82%	0	0.46%	0.02%	0.67%	0.67%	0.67%	0.68%	0.62%	becominant: Total number of large outcomes in the south pridiced by unique state information and outcomes (2). The contraction of the contraction	Participation is defined as the first instance of participation. Small customers are defined as those who use less than 40,000 kWh or 20,000 thems annually.	
239 PGBS ADS	inti	PSL Perce	t New participation	Indicator	Precent of customers participating that have not received an incentive for the past three years, annually, by small, medium and large customer scregories	Percent of large customers participating in reporting year that have not received an incentive for the past three years	Industrial (I)	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	A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Annual number of large industrial participants (by service account) that have not received an incentive for the past 2 years. Denominator: Total number of unique large industrial account and premise IDs. in	Large customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.	
240 PGBE A08	inti	PSM Perce	e New participation	Indicator	Precent of customers participating that have not received an incentive for the past three years, annually, by small, medium and large customer coegories	Percent of medium customers participating in reporting year that have not received an incentive for the past three years	Industrial (I)	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	A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Annual number of medium industrial participants (by service account that have not received an incentive for the part 3 years becomistor: Total number of unique medium industrial account and premise to in the sector.	Medium customers are defined as those who use between 40,000-500,000kWh or 10,000-250,000 thems annually.	
241 PGBS ADB	todi	PSS Perce	t New participation	Indicator	Percent of customers participating that have not received an incentive for the part three years, annually, by small, medium and large customer cregories	Percent of small customers participating in reporting year that have not received an incentive for the past three years	Industrial (I)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/X - Indicator	N/A - Indicator N/A	A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Annual number of small industrial participants (by service account) that have not received an incentive for the past 3 years.	Small customers are defined as those who use less than 40,000 kWh or 10,000 thems annually.					
242 PGES AGE	: to5	uc syst	Cost per unit saved	Metric		PAC Levelized Cost (\$/KW)	Industrial (I)	2016	\$ 15,943,141	\$3,710	\$ 296.84	227	\$ 262.65	\$ 341.33	\$ 296.84	\$ 296.84 \$	296.84	\$ 28199	\$ 281.99	PAC cost per kWh or per therm or per kW is (PAC Cost x Slectric Benefits/Total Benefits/Liflicycle Niet kWh or (PAC Cost x Gas Benefits/Total Benefits/Liflicycle hiet therm or (PAC Cost x Slectric Benefits/Total Benefits)/Liflicycle Net kW respectively.	Levelland costs.com reported by sector consistent with primary sector groupings in CEDMES PROGRAM specifications.	
243 PGBS AGE	in6	LC SAN	h Cost per unit saved	Metric	Levelined cost of energy efficiency per kWh, therm and KW (use both TRC and MC)	PAC Levelized Cost (\$/kWh)	Industrial (I)	2016	\$ 15,943,141	217,604,109	\$ 0.05	0	\$ 0.00	\$ 0.04	s 0.05	s 0.05 s	0.05	\$ 0.048	5 0.048	The adopted avoided cost methodology does not provide information to provide meaningful value for TRC or PAC Cost per VIV. ADC Cost per VIVI. To per them or per VIVI. PER Cost is Selectic leaveflay. Total famelling bloody for the titude or PAC Cost is Cost famelling. Total devending bloody that them or PAC Cost is Clearing and PAC Cost is Cost famelling. Village of the VIVI respectively.	Levelland costs are exported by sector consistent with primary sector groupings in CSSASS PASCEAMS specifications.	
264 PGB6 A08	ins.	LC S/the	m Cost per unit saved	Metric	Levelland cost of energy efficiency per kWh, therm and KW Juse both TRC and PAC)	PAC Levelized Cost (\$/sherm)	Industrial (I)	2016	\$ 10,797,104	29,338,609	\$ 0.37	0	\$ 0.39	\$ 0.43	\$ 0.27	s 0.27 s	0.27	\$ 035	\$ 0.35	esspectively PAC cost per kWh or per therm or per kW is (PAC Cost is Electric Benefits/Total Benefits)Unkcycle het kWh or (PAC Cost is Gas Benefits/Total Benefits)Unkcycle hat therm or (PAC Cost is Electric Benefits)Unkcycle het kW esspectively	Levelized costs are reported by sector consistent with primary sector groupings in CCOARS PROGRAM specifications.	
245 PGBS AGE	in6	uc syst	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and KW juse both TRC and PAC)	TeC Levelined Cost (5,/kW)	Industrial (I)	2016	\$ 25,401,923	53,710	\$ 472.94	362	\$ 279.55	\$ 451.77	\$ 472.94	\$ 472.94 \$	472.94	\$ 448.30	\$ 449.30	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	Levelland costs are exported by sector consistent with primary sector groupings in CCDARS PROCRAM specifications.	
26G PGBE ACE	lec .	EC SAN	h Cost per unit saved	Metric		Tel Levelland Cost (5/KWh)	Industrial (II	2016	\$ 25,601,923	317,604,109	\$ 0.08		\$ 0.05	s 0.05	s 0.08	S 0.08 S	0.08	\$ 0.076	g p.m.	The adopted avoided cast methodology does not provide information to provide meaningful value for TRC or RPC Cost per VM. TPC cost per kills up per therm or per kills (TRC Cost x Riccric Benefits)/Total fameling/billecycle Net kills or (TRC Cost x Cost Resetter/Text) Benefits)/Ediscycle Net Therm or (TRC Cost x Riccric Benefits/Text) Benefits)/Lifecycle Net kill respectively.	Levelized costs are reported by sector consistent with primary sector groupings in	
247 PGES AGE		EC S/the		Metric		TRC Levelland Cost (S/NWh) TRC Levelland Cost (S/Nhmm)	Industrial (I)	2016	\$ 25,601,022	29,338,609	\$ 0.59		\$ 0.56	\$ 0.57		s 0.59 s	0.59		\$ ACC	Not them or (TRC Cost x Shectic Benefits/Total Benefits) Utles/cle Net KW respectively: TRC cost per kWsh or per therm or per kW is (TRC Cost x Shectic Benefits/Total Benefits/\$\tilde{\til	CCDARS PROCRAM specifications. Levelland costs are reported by sector consistent with primary sector groupings in CDCARS PROCRAM specifications.	
248 PG&6 AO								2016	10,546	6,916,277	0.15%		0.07%	goes.	0.22%		0.26%	031%	0.16%	Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database		
		200428 KV		al Metric	Reduction in consumption (proposed by SCE and SDGBE)	Percent first year annual KW gross	Industrial (I)		10,546	6,916,777	0.15%	0	0.07%	0.04%				0.21%	0.16%	Projected usage remains steady through 2005 in accordance with projections from CEC cales data presented in the 2018 Patential and Goals Soudy "Bild" case. Numeration - NAMERIC RN 1 Genominator in Total sectoral usage from PGSE distabase	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
269 PGEC ADS	iné	S2 Percent fi annual k	t year S2: Percent Overall Sector I net Savings	Metric Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kW net	Industrial (I)	2016	7,653	6,916,777	0.11%	0	0.06%	0.03%	0.17%	0.17%	0.17%	0.16%	0.16%	Projected usage remains steady through 2025 in accordance with projections from CSC 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 CD.	
250 PGBE A08	trid.	S2 Percent fi annual kill	st year S2: Percent Overall Secto Savings	al Metric	Reduction in consumption (proposed by SCE and SDGBLE)	Percent first year annual KWh gross	Industrial (I)	2016	48,200,588	9,748,274,838	0.49%	٥	0.30%	025%	1.16%	1.12%	1.10%	0.92%	0.68%	Numerator + Metric IN 1 Decominator + Total sectoral usage from PG&E database Projected usage remains steady through 2025 in accordance with projections from CCC sales data presented in the 2018 Potential and Goals Study "Met" case.	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	

Attachmer	t 4, Table 19	
PA Name	Parific Gas and Electric	

PA Name Budget Y	Marked M														1					
Index	PA AZA Pa	ATA Metho e Order Code	od Units of Measurement	Metric Type	Metric/ Indicator Business Plan Att A Description	Metric	Sector	Year	Numerator	Denominator	2016	2017		2019	2018		2020	Mid Term Target (2023-2023) Cumulative	Long Term Target (2036-2025) Cumulative	Methodology Key Definition Proxy Explanation FLLG
261	PGBE ADB	in6 52	Percent first year annual kWh net	S2: Percent Overall Sectional Savings	Metric Reduction in consumption (proposed by SCS and SDG&E)	Percent first year annual kWh net	Industrial (I)	2016	37,054,341	9,748,274,828	0.28%	0	0.25%	0.20%	0.84%	0.82%	0.80%	0.69%	0.57%	Succession (See 18) Committee or final incomplete to MSE decision Administrative from a recognitive for the MSE decision Administrative from a recognitive for the MSE decision of the
262	PGBS A08	in6 52	Percent first year annual Therm gros	S2: Percent Overall Sectoral Savings	Metric Reduction in consumption (proposed by SCE and SDGB.E)	Percent first year annual Therm gross	Industrial (I)	2016	3,038,179	4,144,958,996	0.07%	0	0.09%	0.17%	0.11%	0.11%	0.12%	0.19%	0.22%	Management and R.1. Management and the second seco
253	PGBS A08	In6 52	Percent first year annual Therm net	S2: Percent Overall Sectional Savings	Metric Reduction in consumption (proposed by SCS and SDG&E)	Percent first year annual Therm net	Industrial (I)	2016	2,127,794	4,144,958,996	0.05%		0.07%	0.11%	0.10%	0.11%	0.11%	0.16%	0.19%	As demanded and an advantage and an advantage of the second and th
254	PGBS AGR	in6 52	Percent lifecycle ex ante kW gross	S2: Percent Overall Sectoral Savings	Metric Reduction in consumption (prepared by SCE and SDG&E)	Percent Mecycle ex-ante kW gross	Industrial (I)	2016	75,129	6,816,777	1.09%		0.84%	0.48%	1.62%	1.66%	1.68%	1.49%	1.14%	Numerator v Moral IN 1 December 1 Table in storm vage from PASS database
				Savings																Project on any errors can be from \$10 to \$10
265	PGBS AGB	in6 52	Percent lifecycle ex ante kW net	Savings	Metric Reduction in consumption (proposed by SCS and SDG&E)	Peccent lifecycle ex-ante kW net	Industrial (I)	2016	\$9,710	6,916,777	0.78%	٥	0.70%	0.32%	118%	1.20%	122%	1.08%	0.82%	Projection agreements made frames (2015 on the projection test) Consideration provides deliberation and confidence and projection test Consideration provides deliberation and confidence and confidenc
256	PGES AGE	in6 52	Percent lifecycle ex ante kWh gross	S2: Percent Overall Sectional Savings	Metric Reduction in consumption (proposed by SCS and SDG&E)	Percent lifecycle ex-ante kWh grass	Industrial (I)	2016	429,138,678	9,748,274,828	4.60%	0	3.79%	2.42%	10.32%	10.05%	9.78%	8.15%	6.09%	Inglinid suggestable deap formula deaph formula 2021 in another with projection loss. Inglinid suggestable deaph formula 2021 in another with projection loss loss and the contract of the co
267	PGBS ADB	in6 52	Percent lifecycle ex ante kWh net	S2: Percent Overall Sectoral Savings	Metric Reduction in consumption (proposed by SCE and SDG&E)	Percent Effecycle ex-ante kWh net	Industrial (I)	2016	317,604,109	9,748,274,828	2.26%	۰	3.18%	1.81%	7.94%	7.72%	7.52%	6.27%	4.68%	Projected usage remains steady through 2005 in scordance with projections to see CCC cales data presented in the 2016 Persential and Goals Study "Mell" case.
258	PGBE ADB	in6 52	Percent lifecycle ex ante Therm gross	S2: Percent Overall Sectoral Savings	Metric Reduction in consumption (proposed by SCS and SDG&E)	Percent lifecycle ex-ante Therm gross	Industrial (I)	2016	42,101,250	4,144,958,996	1.02%	0	0.77%	1.40%	152%	150%	1.64N	2.67%	3.10%	Sensetives in the control of the con
259	PGES AGE	in6 52	Percent lifecycle es ante Therm net	S2: Percent Overall Sectoral Savings	Metric Reduction in consumption (proposed by SCE and SDGBE)	Percent lifecycle ex-ante Therm net	Industrial (I)	2016	29,338,609	4,144,958,996	0.71%	0	0.60%	0.92%	1.06%	1.10%	1.15%	1.87%	2.17%	International trace in East Section 2015. International trace in the Section 2015 of Section
260	PG&E A09	A1 51	kw	SS: Snergy Savings	Metric First year and lifecycle on ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	d First year annual KW gross	Agricultural (A)	2016	N/A	N/A	23,551	18,457	12,302	10,526	10,350	11,373	12,090	12,290	12,556	Basildes data is reported conscioure with grown years prough or CESSES Figure 1 Sept.
261	PGBS A09	A1 51	kW	St: Energy Savings	Metric First year and lifecycle on ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, goos and not	d First year annual KW net	Agricultural (A)	2016	N/A	N/A	17,191	12,128	8,008	6,550	8,720	9,474	9,998	10,221	10,754	Baseline data in insported cancisters simi princary sector groups in CRAMS ROCOMM specification and only greate the information propriet in 2016 Aromal Region Turgot severe set uning the 2018 Persental and Gasals Study, consistent with Note Note To consider the line of the consideration of the con
262	PGBS A09	A1 51	kWh	St: Greegy Savings	Metric First year and lifecycle or ante (pre-evaluation) annualized gas, electric, and demand casings in apriculture sector, gross and net	d First year annual 100th gross	Agricultural (A)	2016	N/A	N/A	76,257,392	59,866,742	37,334,735	28,361,055	64,751,466	71,595,603	75,954,461	73,886,455	67,750,780	Searcher data in Improved acceleration with principle species GSBASS (Searcher data of the Control of the Cont
263	PGBE A09	A1 51	kWh	St: Energy Savings	Metric First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	d First year annual KWh net	Agricultural (A)	2016	N/A	N/A	54,914,559	38,994,338	25,206,111	18,712,796	51,027,868	55,750,891	58,743,662	57,946,784	56,179,829	baseline data in imported consistent with principal scale (SAMA) Application of the control of
264	PGBS A09	A1 51	Them	SS: Snergy Savings	Metric First year and lifecycle on ante (pre-evaluation) annualized gas, electric, and demand cavings in agriculture sector, gross and not	d First year annual Therm gross	Agricultural (A)	2016	N/A	N/A	1,113,179	1,170,630	406,662	129,686	360,106	341,380	339,186	436,144	\$70,658	Baseline data in ingrands carelations with principal years (2006.55 (2006.000 and questions and large with subheavement principal 2016.6 hexatol layout. Target was set using the 2018 Ferration for Galls Study, consistent with (2006.000 and paging also in 2017.000 data.)
265	PGBE A09	A1 51	Them	St: Energy Savings	Metric First year and lifecycle on ante (pre-evoluation) annualized gas, electric, and demand savings in agriculture sector, gooss and net	d First year annual Therm net	Agricultural (A)	2016	N/A	N/A	871,717	705,092	246,683	85,943	417,288	410,246	411,919	481,756	584,018	Sealer fail is reproduct accordant with privary accordant program (2014) Modification confidence and the sub-indepensant program (2014) Magnet. Topics were not using the 2018 Promotified of desire being accordant and before the support of the sub-indepensant program of the sub-independent program of the sub
266	PGBS A09	A1 51	kW	S1: Snergy Savings	Metric First year and lifecycle es ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	d Lifecycle ex-ante KW gross	Agricultural (A)	2016	N/A	N/A	178,362	137,016	81,667	110,071	78,342	86,085	91,509	92,949	95,039	States and to recognite distinctive with primary serginary CLBMS. PORTIONS of the CLBMS of the
267	PGBS A09	A1 51	kW	S1: Snergy Savings	Metric First year and lifecycle or ante-(pre-evaluation) annualized gas, electric, and demand swings in agriculture sector, gross and not	d Lifecycle aw ante KW net	Agricultural (A)	2016	N/A	N/A	120,201	89,341	54,360	65,094	\$7,152	62,801	66,758	67,808	69,222	Marker facility compand animative with primary sergical CEMES (Michael Sepecial Counting Animatics Animat
268	PGBS A09	A1 S1	kWh	St: Energy Savings	Metric First year and lifecycle on ante (pre-evoluation) annualized gas, electric, and demand cavings in agriculture sector, gross and not	d Lifecycle as anna KWh grous	Agricultural (A)	2016	N/A	N/A	698,948,565	570,126,033	251,386,871	302,852,673	592,712,016	655,360,826	695,260,269	676,230,475	630,166,676	Market earn or supported and statement with primary surgered and SEES of the S
269	PGBS A09	A1 S1	-	St: Energy Savings	Metric First year and illecycle on ante (one-evaluation) annualized gas, electric, and demand savings in agriculture sector, goes and not		Agricultural (A)	2016	N/A	N/A	481,725,607	369,145,011	174,700,778	198,957,261	426,280,981	471,338,369	500,034,117	486,419,730		Sealer of the Injury of an allower with privary year (2004). The Company of the Injury
270	PGBS A09	A1 51		St: Energy Savings	Metric First year and illecycle on arts (pre-evaluation) annualized gas, electric, and demand useings in agriculture sector, gross and net		Agricultural (A)	2016	N/A	N/A	10,127,212	16,053,724	4,557,496	1,725,341	3,279,356	3,108,819	3,088,961	3,971,902	5,196,771	Seales from 1 compared an eliminary in property of 10,000 pt. Seales from 1 compared an eliminary in property of 10,000 pt. Seales from 1 compared an eliminary in property of 10,000 pt. Seales from 1 compared an eliminary in property of 10,000 pt. Seales from 1 compared an eliminary eliminary property of 10,000 pt. Seales from 1 compared an eliminary eliminary property of 10,000 pt. Seales from 1 compared an eliminary eliminary property of 10,000 pt. Seales from 1 compared an eliminary eliminary property of 10,000 pt. Seales from 1 compared an eliminary eliminar
271	PGBS A09	A1 S1	Them	St: Energy Savings	Metric First year and lifecycle or arte (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, goos and not Metric Greenhouse gasses (MT CCDeg) Net WM savings, reported on an annual		Agricultural (A)	2016	N/A	N/A	7,013,911	9,695,419	2,729,233	1,063,153	2,568,024	2,434,478	2,418,824	3,110,270	4,069,529	PAGGAMA specification and aligns with adviewment reported in 2015 Annual Specific Tagges are resident to 2015 Annual Specific Annual Specific Annual COUC-designed goals in 0.17-09-025.
272	PGBS A09		MTCCORq spant Percent	GHG P1: Penetration of energy efficiency programs in the eligible market: Percent of	Metric begins the current was a second of the current with second of the current was a second of the current was a second of the current was and large customers.		Agricultural (A)	2016	N/A	N/A 2,581	24,977	17,490	2,659	1,968	23,213	25,356	26,718	26,855	25,552 7.9%	Hope To large was an any time 2018 Procedure and code to body, consistence with Conduction any and a 2018 Procedure and printing sector consistence and printing sector consistence and printing sector consistence and printing sector consistence and printing sector printing sector and printing sector consistence and printing sector consistence and printing sector consistence and printing sector consistence and p
278				Participation		Percent of participation relative to eligible population for large outtomers			262											Concentrator: Total number of large outcomers in the sector (infined by seigne starbinistics of amount and sevents (in a proposition of the sector (infined by seigne starbinistics of amount and sevents (in a proposition of the sector (infined by seigne amount). **Sector (infined and optioning medium customers) (infined by seigne Amounts (in the set optioning medium customers) (infined by seigne **Sector (in the sector (in the sect
274	PGBS A09	All PS: Partic	spant 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	920	30,050	2.0%	٥	1.64%	0.72%	2.0%	3.0%	2.0%	3.0%	3.0%	Numerators. Next and participating medium constrains (softend by various constraints of a processing of processing of the constraints of processing of the constraints of processing of the constraints of
275	PGBS A09	A3 P1: Partic	gant Percent	91: Penetration of energy efficiency programs in the eligible market: Percent of Burtification	Metric Percent of participation relative to eligible population for small, medium and large customers.		Agricultural (A)	2016	581	81,390	0.72%	0	0.42%	0.17%	0.72%	0.72%	0.72%	0.72%	0.72%	Secretaries Mental and another of trapprocessors in the resident processors of the resident processors
276	PGBS A09	Ad LC	\$/kW	Cost per unit saved	Metric Leveland cost of energy efficiency per kWh, therm and kW (use both TAC and SHC)	PAC Levelized Cost (\$/kW)	Agricultural (A)	2016	\$ 21,039,789	120,201	\$ 175.04	178	5 191.04	\$ 155.32	\$ 175.04	\$ 175.04	S 175.04 S	166.29 \$	166.29	The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost on W.
277	PGBE A09	Ad LC	SAMA	Cost per unit saved	Metric Leveland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost (%/kWh)	Agricultural (A)	2016	\$ 21,039,789	491,735,607	\$ 0.044		S 0.059	\$ 0.051	\$ 0.044	\$ 0.044	S 0.066 S	0.041 5	0.041	Mix cos por titch or yet them or yet with a (Mix Clear Limin-Clearfully (Final learning Unity), where with or (Mix Care Limin-Clearfully (Final learning Unity), where the Mix Care Cale learning (Limin Limin) (Limin), where a consistent of the Care Care Care Care Care Care Care Car
278	PGBS A09	Ad LC	S/therm	Cost per unit saved	Metric Leveland cost of energy efficiency per kWh, therm and kW (use both TAC and SAC)	PAC Levelized Cost (\$/therm)	Agricultural (A)	2016	\$ 2,281,643	7,013,911	\$ 0.32	0	5 0.68	\$ 0.60	\$ 0.325	\$ 0.325	s 0.325 s	0.309 \$	0.309	No. compared to graph errors and price of place. Compared interface of the compared of the com
279	PGBS A09	AM LC	S/kw	Cost per unit saved	Metric Levelland cost of energy efficiency per KWh, therm and KW (see both TSC and PMC)	TRC Levelized Cost (S/VW)	Agricultural (A)	2016	\$ 40,771,778	120,201	s 339.20	296	\$ 648.54	\$ 200.27	\$ 239.20	\$ 229.20	s 339.20 s	322.24 \$	222.24	TAC cost per Valh or per them or per KWI (TAC cost a Secretic Benefits/Total Benefits/Valhoo) here Valho or (TAC cost a Secretic Benefits/Total Benefits/Valhoo) here Valhoo or (TAC cost a Secretific Total Benefits/Valhoo) here Valhoo or (TAC cost a Secretific Total Benefits/Valhoo) here Valhoo or (TAC cost a Secretific Valhoo) here Valhoo or
280	PGBS A09	Ad LC	S/kmh	Cost per unit saved	Metric Levelbard cost of energy efficiency per kWh, therm and kW (use both TAC and PAC)	TRC Levelized Cost (S/Wh)	Agricultural (A)	2016	\$ 40,771,778	481,725,607	s 0.085	0	\$ 0.140	\$ 0.109	\$ 0.065	s 0.085	s 0.085 s	0.000 \$	0.000	The displaced and an extra displacing data are an extra displaced and extra
281	PGBS A09	Ad LC	S/therm	Cost per unit saved	Metric Levelland cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TeC Levelized Cost (5/therm)	Agricultural (A)	2016	\$ 4,421,075	7,013,911	\$ 0.44		\$ 1.50	\$ 129	\$ 0.63	s 0.00	s 0.62 s	040 S		Microsi part with part referred age is the STEPLE CLASS of STEPLES and ADMITTAL STEPLES ADM
282	9W A10	CS1 S1	Net GWh	S1: Energy Savings	Metric Net Greegy Savings: GWH	Net Gilth savings	Codes & Standards (CS)	2016	N/A	N/A	1,402	1,889	1,450	1,327	1212	1257	1267	1327	1923	2008-2025 consistent with adapted goals from 0.17-04-025, Tables 1,7, and 2,p. 27-06-205 from CDAAS (polition or substanded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values summed across all flow DOA's "Sharper" of the CDAAS (polition or not founded), Values (political o
283	9W A10	CS1 S1	Not MM Therms	St: Energy Savings	Metric Net Energy Savings: MM Therms	Not MMTherms savings	Codes & Standards (CS)	2016	N/A	N/A	29	42	45	45	42	42	49	56	55	2008-2015 Connitioner with adaptined gasin from 0.12-06-025; Tables 1, 2, and 3, p. 329-305 (see CLOMAS Equilibrer on at including Studes unremod careas all four 60.0. "Studies" and Studies on the Cloud Studies on the C
284	9W A10	CS1 S1	Net MW	SS: Snergy Savings	Metric Net Greegy Savings: MW	Net MW cavings	Codes & Standards (CS)	2016	N/A	N/A	272	346	222	298	272	275	311	289	415	Date 20 common with earlier of the Date 20 common with an Date 20 cold Co. Howe L. L. And J. J. Date 20 common with an Date 20 cold Co. Howe L. L. And J. J. Date 20 cold common with an Date 20 cold cold cold cold cold cold cold cold
285	9W A10	CS2 1	Count	Advocacy-fluiding	Number of measures supported by CASS studies in rulemaking cycle Instrument world?	Number of measures supported by CASS studies in colorables curie increast works	Codes & Standards (CS)	2016	N/A	N/A	12	23	64	0	N/A	N/A	12	12	12	Measures supported by CASS Security Sec

Attachment 4, Table 19
PA Name: Parific Gas and Electric

Attachm PA Name	nt 4, Table 19 : Pacific Gas and E rar: 2021	ectric																,		•		
Budget Y	PA ADAPA SW A10	ATA Method	d Units of Measurement	Metric Type	Metric/ Indicator Business Plan Att A Description	Metric	Sector	Year	Baseline	Denominator	2016	2017	ctual 2018	2019	2018	Short Term Target	2020	Mid Serve Surget (2003-0020)	Long Term Target (2036-2026)	Methodology	Key Definitions	Proxy Explanation FLAG
286	9W A10	CS2 2	Count	Advocacy-fluiding	Indicator Burniness Plan Att A Description Metric Number of measures adopted by CKC in rulemaking cycle (indicator of service)	number of measures adopted by CEC in mismaking ruris (indicator of part work)	Codes & Standards (CS)	2016	N/A	Denominator N/A	12		57	0	N/A	N/A	12	Mail Seem Engol (2003 3003) Controllation 12	Comulation 12	Measures adopted by CEC	Rey Determinant Resuline and targets for measures supported are for 3 year cycle rather than annual	
297	9W A10	CSS 1	Count	Advocacy-Appliance	Metric Number of T-30 measures supported by CASS studies in rulemaking cyc (current work)	de Number of T-20 measures supported by CASE studies in rulemaking cycle (current work)	Codes & Standards (CS)	2017	N/A	N/A	s	s	4		N/A	N/A	6	10	10	T-30 measures supported by CASE	Sizueline is annual. Targets for measures supported are for it year cycle rather than annual. 2017 chosen as baseline since 2016 was zero.	
298	9W A10	CSS 2	Count	Advocacy-Appliance	Metric Number of measures adopted by CSC in current year	Number of measures adopted by CEC in current	Codes & Standards (CS)	2016	N/A	N/A	4		3	2	N/A	N/A	10	10	10	Measures adopted by CSC	than annual. 2017 chosen as baseline since 2016 was zero. Raseline is annual. Targets for measures adopted are for 2 year cycle rather than annual.	
289	9W A10	CS4 1	Count	Advocacy-Federal	Metric Number of federal standards adopted for which a utility advocated (IOI to list advocated activities)	Number of federal standards adopted for which a utility advocated (IOUs to list advocated	Codes & Standards (CS)	2016	N/A	N/A	22	7	0	1	21	21	21	20	20	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	9W A10	CS4 2	Count	Advocacy-Federal	to list advocated activities Metric Percent of Indexal standards adopted for which a utility advocated (IRC) supported / it OCE adopted)	Percent of federal standards adopted for which utility advocated (#IOU supported / # DOG	Codes & Standards (CS)	2016	N/A	N/A	100%	100%	N/A	4%	100%	100%	100%	100%	100%	#10th supported + #006 adopted	Sassifines and targets are annual.	
																				# DOL Sappsed		
291	9W A10	CSS 1	Count	Reach Codes	Metric The number of local government Reach Codes implemented (this is a joint Month of the Arthur Codes)	int The number of local government Reach Codes Implemented (this is a joint IOU and REN effort)	Codes & Standards (CS)	2016	N/A	N/A	6	12	s	10	N/A	N/A	25	25	25	Reach Code ordinances implemented	Targets are total for a three-year Tide 24 code cycle. Jurisdictions having multiple reach codes will be counted by reach code rather than by jurisdiction. Accomplishments will be reported from the CSC Reach Codes website	
						Number of training activities (classes, webinant)															(http://www.energy.cs.gos/fitle24/2012standards/ordinances/).	
292	9W A11	CS6 1	Count	Compliance improvement	Number of training activities (classes, webinars) held, number of marks action participants by segment (e.g. building officials, builders, architec	t held, number of market actors participants by ts, segment (e.g. building officials, builders,	Codes & Standards (CS)	2017	N/A	N/A	128	118	191	190	138	138	128	128	128	Number of training activities	118 Eve training sessions and 20 webinars in 2017; short, mid, and long-term targets are annual	
					Number of training activities (classes, webinary held, number of marks) anno participants by segment Jeg, building officials, builden, stribber of excit and the she total size (sumber of the target audience) by sector. (Number of training activities	 architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of training artholise 	1														targets are annual	
						Number of training activities (classes, webinars)																
293	9W A11	CS6 2	Count	Compliance Improvement	Number of training activities (classes, weblinard held, number of marks among participants by segment leg, building officials, builden, architecture sec_land the textual size jumper of the target audience) by sector. (I	Number of training activities (classes, webinan) to held, number of market actors participants by sugment (e.g., building officials, buildens, and architects, etc) and the het stall size (number of the target audience) by sector. (M) Number of numbers of numbers of participants.)	Codes & Standards (CS)	2017	N/A	N/A	3,600	3,000	4,970	3,610	3600	3600	3600	3600	3600	Number of participants	3000 attendees for live training and 600 attendees for webinast in 2017; short, mid, and long-term tragets are annual. Attendees will be shown by major segment (i.e., building officials, builders, architects, HERS steers) and target size of each segment will be provided during first metrics reporting.	
					ect, and the the occasione (sumber of the target audience) by sector. (I Number of participants	the target audience) by sector. (M) Number of participants															segment will be provided during first metrics reporting.	
																					Code compliance knowledge increase will be texted via pre and post training questionaires. Surveys will be conducted for training that bests longer than three hours (in order to preserve time for instruction in shorter training sections).	
294	9W A11	CS6 3	Score	Compliance improvement	Metric Increase in code compliance knowledge pre/post training	Increase in code compliance knowledge pre/postraining	Codes & Standards (CS)	2017	N/A	N/A	20%	20%	18%	18%	20%	20%	20%	20%	20%	Knowledge score	questionaires. Surveys will be conducted for training that sorts onget than three hours (in order to preserve time for instruction in shorter training sessions). Questionaires will be made available during the first metrics reporting.	
~	REN A11		Percent		The percentage increase in closed permits for building projects triggeria	The percentage increase in closed permits for building projects triggering energy code compliance within participating jurisdictions		2018	N/A	N/A.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,OL	N/A			
200	NAN ATI	CMAR 1	Percent	Compliance Improvement	The percentage increase in closed permits for building projects triggers energy code compliance within participating jurisdictions		Codes & Standards (CS)	2018	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	No.	N/A			
296	REN A11	CS681 1	Count	Compliance improvement	Number and percent of jurisdictions with staff participating in an Energ Policy Forum	y Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	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	N/A - Indicator	N/A - Indicator			
297	REN A11	CS68i 1	Percent	Compliance improvement	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	y Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	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	N/A - Indicator	N/A - Indicator			
298	REN A11	CSGRI 2	Count	Compliance immensus	Indicator Number and percent of jurisdictions receiving lineagy Policy technical assistance.	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Codes & Standards (CS)	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	N/A - Indicator	N/A - Indicator			
_				e reproveitett																		
299	REN A11		Percent	Compliance improvement		Energy Policy technical assistance.	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	my/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator			
300	REN A11	CSSRI 3	Count	Compliance improvement	Indicator Suidings receiving enhanced code compliance support and delivering compliance data to program evaluators	mundings receiving enhanced code compliance support and delivering compliance data to constant evaluation.	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	my/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator			
																					"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.	
301	PGRE A12	W67-1 1	Count	Collaborations	Metric Number of collaborations by Business Plan sector to jointly develop or	Number of collaborations by Business Plan	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A-PG&E did not execute collaboration agreements in 2016	N/A	N/A	s	N/A	s	6				The targets are based on interviews with PGBS staff. PGBS does not anticipate a	
801	Pulat A12	W61-1 1	Court	Conscorators	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.	Training (WET)	N/A	ng n	400	2016	N/A	N/A		NA	,		*		starreque.	the progress of states in the number of collaborations, to rather tumous within our number of collaboration as activities become self-sustaining without the need for PGEC assistance. The 2018 target is set as NIA because PGEG does not currently have any signed collaboration agreements in place.	
																					Targets reflect number of agreements currently in place as of the referred time period.	
												al Residential: 3,680		a)								
											a) Residential: 2,457 Non-Res: 2,056 101AL: 6,513	Non-rec: 3,574 TOTAL: 7,254	a) 2,463 Res	Residential: 0,066 Non-residential: 0,596								
											TOTAL: 6,512	b) Architecture 1709 Audits 1425 Beechmarking 756	a) 3,463 Res 9,259 Non-res. TOTAL: 12,992	Total: 13,462								
											b) in order of popularity: HVAC 3,377	Benchmarking 756 Building Envelope 2038	b) in order of popularity: HVAC - 6919; Building Performance - 2742;	b) Agricultural: 306							Washington Co.	
											Commissioning/Cit 2,669 Lighting 1,729	Building Performance 3726	Building Performance - 2742; Building Envelope - 2552;	b) Agricultural: 206 Building Envelope: 2,252 Climate and Sustainability:2,540 Commercial Food Servior:2,617							"Sector" refers to: a. Residential versus non-residential b. Energy efficiency training topic area (e.g., Lighting, HVAC, Agriculture)	
											ZeroNetEnergy 1,725 Title26 1,672	Environment 957	Building Envelope - 2552; Controls - 2379; Commissioning (Cs) - 2318;	Commercial Food Service #617							"Participants" means aggregate class attendance, meaning that one person	
							Workform Education and				Controls 1,451 RulldingSnuelope 1,344 Stablassine 1 795	Controls 2198 Daylighting 528	integrated Building Design / 2NE - 2801; Energy Code (Tide 24) - 2255; Lighting -	Committee to 600	6 SNN Torrol (D ASI) res	6 S00 Total (2 #50 res	6 500 Total (2 #50 car	6 500 Tetal 12 450 as and	6,500 Total (3,450 res and 3,050 nor		"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.	
302	PGBE A12	WET-2 1	Count	Penetration	Metric Number of participants by sector	Number of participants by sector	Workforce Education and Training (WET)	2016	N/A	N/IX	Audits 1,125 Audits 1,125 Architecture 1,013	Food Service S40 HVAC 3985	1704; Architecture - 1528; Renewable Energy - 1232; Climate and Sustainability -	Energy Code (Title 24): 3,352 Finance:221 Home Performance: 1,385	and 3,050 non-res)	6,500 Total (2,450 res and 2,050 non-res)	and 3,050 non-rec)	2,050 non-res)	ued e'zen iozail's'ero ser avo s'ozen uos	Report from class registration database.	PG&6 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	
											Renewables 956 Refrigeration 876	Marketing/Finance 172 Motors 456	Climate and Sustainability - 1082; Energy Auditing -	HVAC 5,142							Linemployment 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	
											In order of popularly: HACK 2372 III ord	Building Performance 2726 Cilinate and Convision 2018 Convision 20	1082; Energy Auditing - 1080; Solar - 784; Water and Energy - 524; Daylighting - 508; Benchmarking - 455; Commercial Food Service -	Integrased Bioglossign / 2NC: 4,121 Lighting 2,619 Rates, Robate & Incerdise Progr. 564 Renovable Foregy 1,787 Software (Analysis, Modeling):855 Water & Energy: 2,229 Water & Energy: 2,229 Other: 25							the existing industry. In other words, when the workforce is bury, they do not have time to attend as many disses. The unemployment rate has fallen since 2016, which means that attendance may fall as well. PGES will adjust the training format.	
											ClimateandEnvironment 771 Benchmarking 648	Refrigeration 562 Renewables 800		Lighting 2,919 Rates, Rebate & Incentive							(e.g., Offer online classes) and time (e.g., Offer night classes) in order to maintain our 2016 attendance figure.	
											Daylighting 644 WaterandEnergy 529	Site Planning 997 Software 175 Solar 781	Process/Manufacturing - 369; Software (Analysis, Modeling) - 240; Motors - 196; Finance - 114;	Progr. 964 Renewable Energy: 1,787 Software Marshell								
											Software 426 FoodService 234	Tele24 1268 Water and Energy 794	Modeling) - 240; Motors - 196; Finance - 114;	Modeling):#55 Water & Snergy: 2,229								
											managrazas.	Zero Net Energy 2413		Other: 25								
																					"Participation" means unique participants, meaning that one person attending two disses throughout the year would be counted as one participant.	
																				Numerator: from class registration database. Denominator: PGER's where of 221,000 jobs is approximately 122,880. Advanced longs (account; instructed PGEI) upon clading: "Suregy Officiency 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 Errors support over 221,000 jobs." Assume advanced lengty Efficiency jobs are commissional wind.	"Curriculum" refers to the portfolio of training programs and training materials offered by WE&T	
303	PG&E A12	WET-2 1	Percentage	Penetration	Metric Percent of participation relative to eligible target population for curricu	lum Percent of participation relative to eligible targe population for curriculum	Workforce Education and Training (WET)	2016	3450	132380	2.6% (3,450 unique participants)	2.70%	2.50%	3.10%	2.60%	2.60%	2.60%	2.60%	2.60%	sneigh sconorily instructe (Assa) import minding: "sneigh stricency 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	"Eligible target population" refers to the energy efficiency labor workforce within	
																				over 221,000 jobs." Assume advanced Energy Efficiency jobs are commissente wit population for each PA territory. Population figures obtained from 2010 census.	рафияния саправили на сапонна с украилен.	
																					Austification for targets is consistent with justification provided for metric above.	
-		\vdash	1	1	+ +	Common and constructive Common	1					-	-			-						
304	PGBE A12	WET-3 1	Percentage	Diversity	Percent of total WEET 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	N/A	50.29%	47.30%	60%	60%	60%	60%	60%	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.	Circulation based on students with valid CA (not just PG&E) sip codes. Numerator includes students with any CA sip code. Our 2018 records also do not include people who benefited from WEET through consultations, outnests classes, etc.,	
			1	1																		
						1															*Applies only to programs that install, modify, repair, or maintain ES equipment where the incortine is paid to an exity other than a manufacture, distributor, or restall or displayment. This applicability is unatified in Application that has language the July firm halling on worksizers standards. It excludes contracts task that these for upstrams incorrings, Codes and Standards, and mid-strams data those for page states.	
						1															July 9th ruling on workforce standards, it excludes contracts such as those for upstream incentives, Codes and Standards, and mid-stream distributor programs.	
						Percent of incentive dollars spent on contracts.*	and the second														"Demonstrated commitment" means that the vendor usanits a plan describing how the program will provide discladurate describing with improved access to career opportunities in the energy efficiency industry, that they regularly report the provestage of their worldors qualifying at "discladurate pill", and that they have long term targets for the personstage of their worldorse qualifying as "Gisuburate pill".	
305	PGBE A12	WET-3 1	Percentage	Diversity	Metric Percent of incertive 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/OL	N/A	N/A	N/A	N/A	2%	2%	2%	5%	10%	unconvertaged worker tracking is currently not required by PA contract terms and conditions.	career opportunities in the energy efficiency industry, that they regularly report the percentage of their workforce qualifying as "disadvantaged", and that they	
						1															have long-term targets for the percentage of their workforce qualifying as "disadvantaged".	
						1															See "Disadvantaged worker" above.	
						1															Data to support this metric will be required by new third-party program implementers as part of the upcoming solicitations.	
	PGBS A12		1	†	Number Caser & Worldows Sendings: (746) professional de la case	Number Career & Workforce Readiness (CWR)	Windform Discretion or 4													CWO construe does not use paint CWO SCA SCO will be impay 60 304.0 - 14	Data to support this metric will be required by new third-party program implementers as part of the upcoming solicitations. This metric applies only to the Streender CNR program, which will help Casadvartaged Windows on the the energy dudings, and not technical upublic disease offered at the Gongy Centers. As the lead PA, PGAE will report on this metric for	
306	PGBS A12	WET-31 1	Count	Diversity	Indicator Number Career & Workforce Readiness (CWR) participants who have be employed for 12 months after receiving the training	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	N/A - Indicator	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CWR program does not yet exist. CWR 8FA/RFP will be issued Q3 2019 with expected launch mid-2020.	offered at the Energy Centers. As the lead PA, PGEC will report on this metric for the whole state	
307	SW A13	ETP-M1 1	Count	Research Prioritization	Number of TPMs initiated (gas and electric combined), including one Metric technology-focused pilot (TFP) TPM *This number will be updated ono third party contracts have been awarded.	Number of TPMs initiated (gas and electric combined), including one technology-focused plot (TFP) TPM	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	N/A	N/A	6 Electric and gas TPMs where initially developed in		0	4	and TPMs*	thd TPMs*	Data for this metric will be gathered from 3P TPM implementers annually.	1) Technology priority maps (TPMt) are defined in the Business Plan 2) Technology- focused pilot: See ETP-M7	
	5W A13	mun.		Annual Mark	third party contracts have been awarded. Methic Number of 19Ms updated "This number will be updated once all third party contracts have been awarded.	plot (TFP) TPM Number of TPMs updated	Smerging Technologies (ET)	N/A	N/A	N/A	N/A	N/A	N/A	2017 and 2018 respectively. N/A—Electric TPMs will be		-		thd TPMs*	thd TPMs*	Data for this metric will be gathered from 3P TPM implementers annually.	Socured pilot: See ETP-M7 1) Technology priority maps (TPMs) are defined in the Business Plan.	
				meneral Prioritization	party contracts have been awarded. Number of projects initiated "This number will be updated one will thin			2016	N/A	N/A	- April	N/A Sil		undated in 2000.	-		- 1				 Technology priority maps (TMMs) are defined in the Rusiness Plan. Technology priority maps (TMMs) are defined in the Rusiness Plan. 2) Projects are considered "initiated" when project budget has been approved and funding allocated. 	
309	5W A13	ETP-M3 1	Count of Project	Projects	Metric Number of projects initiated "This number will be updated once all this party contracts have been awarded.	d Number of projects initiated	Emerging Technologies (ET)	AUIL	N/A	N/A	61	ы.	47	44	0	0	61	thd projects*	tbd projects*	Data for this metric will be gathered from 3P TPM implementers annually.		
310	SW A13	ETP-M4 1	Count of Events	Outreach	Number of outreach events with technology developers with products year from commercialization, including new technology vendors, manufacturers, and entrepreneurs. "This number will be updated once	 Number of outreach events with technology developers with products <1 year from 	Emerging Technologies (ET)	2016	N/A	N/A.	5	s	4	s		2	3	tbd events*	tbd events*	Each ETP event will provide data for ETP-M4 and ETP-M5 simultaneously.***Cata for this metric will be gathered from TPM Implementers annually based on methodology to be determined.	"Technology developen" – Any organization or company that develops energy efficiency and demand response technology suitable for inclusion in PA incentive	
					manuscurrer, and retrigereous. "This number will be updated once third party contracts have been awarded.	winnerconsistion, including new technology vendors, manufacturers, and entrepreneurs															programs at "sweets" — bit summet, wedness, and in-person meetings, as proposed by ETP implementers.	
311	SW A13	ETP-MS 4	Count of Europe	Outreach	Number of outreach events with technology developers with products: Metric years from commercialization, including new technology vendors, manufacturers, and entrepreneum. "This number will be updated once	 Number of outreach events with technology developers with products <5 years from 	Smerging Technologies (ET)	2016	N/A	N/A	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	See STP-M4	See ETP-866	See ETP-M6	Each ETP event will provide data for ETP-M6 and ETP-M6 simultaneously. ** Data for this metric will be gathered from 2P TPM implementers annually based on methodology to be determined.	efficiency and demand response softwicelps validable for inclusion in All incentive programs 1) "Service"—" Sissemit, verbinars, and in-person meetings, as proposed by ETP implementars. 11 "Enchology developers" — Any organization or company that develops energy efficiency and demand response softwicelps validable for inclusion in All incentive programs 1,11 "Sweet" — If Sweetin, websauts, and in-person meetings, as appealed to 11th Definitions.	
***	Ata				third party contracts have been awarded.	all commercialization, including new technology wendors, manufacturers, and entrepreneurs			,											methodology to be determined.	programs. 2] "Events" – ET Summit, webinars, and in-person meetings, as proposed by ETP implementers.	
312	SW As4	ETP-MG 1	Count of TFFs	Plets	Number of projects initiated with cooperation from other internal IGU Metric programs associated with each Technology-focused Pilot *This number	Number of projects initiated with cooperation from other internal ICU programs associated	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	N/A	N/A	N/A-TFPs will begin once 3P implentation contracts have		0	2	tbd*	thd*	CTP-M6 metric is a subset of ETP-M7 and counted towards ETP-M7 targets. All targets will be determined by AP TPM implementers.	1] "Cooperation" is defined as a process by which all parties work towards a montal chiefrine.	T
-		+	1		will be updated once all third party contracts have been awarded.	with each Technology-focused Pilot								been awarded.		-					massar supriove.	
242	SW A14	CTRACT.	Count of TFPs	Pliets	Number of Technology-Foursed Pilot (TFP) initiated as part of the TFP 1 Metric "This number will be updated once all third party contracts have been awarded.	PM. Number of Technology-Focused Pilot (TFP)	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	N/A	N/A	N/A-TFPs will begin once 2P implentation contracts have been awarded.				tbd*	thd*	Data for this metric will be gathered from 3P TPM implementers annually.	II A sechnology-focused pilot (FFF) will identify market barriers for a diverse range of high-injusct sechnologies through studies, and wilanguerdy breaking down-described barriers is subhazonica with hore-invests programs. 27 eschnology-focused Pilot* - Pilots that have been proposed by JPs in response to PA needs and that have been purposed by JPs in response to PA needs and that have been purposed by JPs in response to PA needs and Shart have been purposed by JPs in response to	
414	A14	arms 1	count of 1991	PROCE	awarded.	initiated as part of the TFP TPM		400	-40	-4/4	- April	.epn	n/A	been awarded.	-		1	ud*	100"		focused Pilot* - Pilots that have been proposed by 3Pt in response to PA needs and that have been approved through the existing ED ideation Process. These includes	
				1	1 1		1				I		1	L .		1					erra surroughed in cooperation with other programs.	

Attachment 4, Table 19
PA Name: Pacific Gas and Electric

PA No	ment 4, Table 1 me: Pacific Gas Year: 2021	and Electri									Baseline		1	A	ctual			Short Term Target		1		1
Index	PA	AZA Page C	NEA Method Inder Code	Units of Measurement	Metric Type	Me	intic/ Sicator Business Plan Att A Description	Metric	Sector	Year	Numerator	Denominator	2016	2017	2018	2019	2018	2019	2020	Mid Term Target (2023-2025) Cumulative	Long Term Target (2036-2026) Cumulative	Methodology Key befolions Proxy Suplanation FAMS
314	SW	A1S E	IP-T1 1	Percent of New Measures	Measure Tracing	Me	Prior year: N of new measures added to the portfolio that were previously TP technologies "The PAs believe this is not suited for a metric with targets because ITP does not make decisions about new measures.	Prior year: % of new measures added to the portfolio that were previously STP technologies	Emerging Technologies (ET)	N/A.	N/A	N/A	For ED, to be determined by an ED study*	to be determined by an E	a e	Per ED, to be determined by an ED study*	Per ED, to be determine by an ED study	Per 60, to be determined by an 60 study	Per ED, to be determined by an EI study	Per ED, to be determined by an ED study*	Fer ED, to be determined by an EE study*	The Collection controlled participates and the information participates and controlled
315	SW	A1S E	IP-T2 1	Count of New Measures	Measure Tracing	Me	Prior fear: 8 of new measures added to the portfolio that were previously ITP technologies. "The PAs believe this is not suited for a metric with targets because ITP 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	N/A	N/A	Per ED, to be determined by an ED study*	to be determined by an E		Per ED, to be determined by an ED study*	Per ED, to be determine by an ED study	Per ED, to be determined by an ED study	Fer ED, to be determined by an El study	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study*	The District Americanian part of pages and the page and t
316	SW	A1S E	1 ET-41	Percent	Measure Tracing	Me	Prior year: N 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	N/A	N/A	Per ED, to be determined by an ED study*	to be determined by an E		Per ED, to be determined by an ED study*	Per ED, to be determine by an ED study	Per ED, to be determined by an ED study	Fer ED, to be determined by an El study	Per ED, to be determined by an ED study*	Per ED, to be determined by an ED study*	to Distance, and training, and target need to be determined by Distance, and the control training to the control training training to the control training training training training training trainin
317	SW	A1S E	TP-T6 1	Court	Measure Toxing	Me	Prior Year: 8 of new codes and standards that were previously ETP sechoologies. "The PAs believe this is not sales for a mestic 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	N/A	N/A	For ED, to be determined by an ED study*	to be determined by an E		Per ED, to be determined by an ED study*	Per ED, to be determine by an ED study	Per 60, to be determined by an 60 study	Per ED, to be determined by an El study	Per ED, to be determined by an ED study*	Fer ED, to be determined by an EE study*	A Dis Manier, microslating, and in specimen and in section and in
318	SW	ASS ET	P-TSa 1	Lifecycle net kW	Savings Tracing	Me	Savings of measures currently in the portfolio that were supported by CTP, added since 2009. Ex exter with gross and set for all measures, with ex-port sets of the set of the tangets because CTP is a non-resource program and does not claim any solvings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. So acts with gross and net for all measures, with ex-gost where available	Emerging Technologies (ET)	N/A	N/A	N/A	For ED, to be determined by an ED study*	to be determined by an E		Per ED, to be determined by an ED study*	Per ED, to be determine by an ED study	Per ED, to be determined by an ED study	Per ED, to be determined by an EI study	For ED, to be determined by an ED study*	Per ED, to be determined by an EE study*	In St. Bendam, embedding, and registrated in a decentional in the control of the
319	SW	ASS ET	P-750 1	Lifecycle net kWh	Savings Tracing	Me	Savings of measures currently in the portfolio that were supported by ETP, added since 2000. So anto with gross and set for all measures, with expoor where available. The PAs believe this is not saled 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 CTP, added since 2009. So ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	N/A	N/A	N/A	For ED, to be determined by an ED study*	to be determined by an E		Per EE, to be determined by an ED study*	Per ED, to be determine by an ED study	Per 60, to be determined by an 60 study	Per ED, to be determined by an EI study	For ED, to be determined by an ED study*	Fer ED, to be determined by an EE study*	No. 20 and combinating, and registration to incommunity of the common c
320	SW	ASS ES	P-TSc 1	Lifecycle net Therms	Savings Tracing	Me	Savings of measures currently in the partfalls that were supported by ETP, added since 2006. So anter with gross and see the all measures, with sepond 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. Six ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	N/A	N/A	N/A	For ED, to be determined by an ED study*	to be determined by an E		Per CD, to be determined by an CD study*	Per ED, to be determine by an ED study	Per ED, to be determined by an ED study	Per ED, to be determined by an El study	ED study*	Per ED, to be determined by an EE study*	The Banker amountaining and the principle of the intermediate to the control of t
321	SW	ALS FI	P-Téa 1	Count of project ideas by PA	Project idea Trading	Me	whether and course for present ally admitted of present claim authorized COSTEGG CF and asset TMP immers propagation growned. These creopions of authorize TMP immers produced produced the creopions of authorize TMP, artificial bits, resolutions, recording to the consult TDP reference and control the number of authorization not their authorize. Together and the control control the number of authorization not their authorize. The present and the control the number of authorization not the control the present as with the resolution of authorization and the control the present propagation and the control the control the control the control the control the control the non-authorities.	Number and source (as reported by submitter) of project deas submitted OUTSDS OF the annual TPM research planning process by PA.	Emerging Technologies (ET)	N/A	N/A	MA	NGA	N/A	nya.	N/A— TPMs will be used once 39 implentation contracts have been awarded.		2	ž	thd*	thd*	Data for this service and the galacted from \$0.00 Well representation are serviced. (Co. 17) Introduced 170 to 180
322	sw	AIS E	9-760 1	Count of project ideas by national labs	Project Idea Trading	Me	humber and usures (an experiently to submitted) of project ideas submitted OUTSG GG the annual TPM research justicing prosens, for these OUTSG GG the annual TPM research justicing prosens, for these 1% piles Assistant betti, and usual for a sent of use the species because CTP effects and consenses that is, not usual for a north could be species because CTP effects and consenses that is not usual for an extra could be an account to the number of submitted one continues to sent in very to share for submitted one of submitted one continues to an extra continues of the submitted of submitted one of the submitted one and sources may be updated in collaboration with CD after all 2PC contracts are accorded.	Number and source (as seported by submitter) of project ideas submitted OUTSON OF the assual TFM research planning process by National Lab	Emerging Technologies (ET)	N/A	N/A	Nor	N/A	N/A	N/A	N/A—TPMs will initiated ance 3P implentation contracts have been awarded.	0	1	1	thơ*	thd*	Sea To Conseq 10° 20 years and a sea to the Company (10° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2
222	SW	A15 EI	P-Téc 1	Count of project ideas by manufacturers	Project Idea Trading	Me	Number and usuard jax reparted by submitted of project ideas submitted of project ideas submitted confidence of the project in the second judgment properties, for these distributions of the project in	Number and source (as reported by submitter) of project ideas submitted CUTEDE OF the annual THM research planning process by Manufacturer	Emerging Technologies (ET)	N/A	N/A	SĄ (A.	NGA	N/A	N/A	N/A— TPMs will be used once 39 implentation contracts have been awarded.	۰	i	s	tbd*	thd*	Seat to find a more all to galacted than \$2.00 May proposed a more of the control
224	SW	ALS ET	9-76d 1	Count of project ideas by entrepreneurs	Project Idea Trading	Me	where and source for respectably admitted by applications absoluted of 1976 COV (1976). The absoluted of 1976 COV (1976)	Number and source (as reported by submitter) of project ideas submitted OUTEDS OF the annual TPM research planning process by Cotsepeneau:	Emerging Technologies (ST)	N/A	N/A	N/A	NA	N/A	N/A	N/A— TPMs will be used once 39 implentation contracts have been awarded.	0	0	ŝ	thd*	the*	last for for carrie and bug description of The Highesterion control, if the process of the second control of the Highesterion control, if the process, it can be reported to the The Land Off The date by the Land Control of the Highest Control of the process, it can be reported to the Third Control of the Control of the Highest Control of the Hight Control of the Highest Control of the Highest Control of the
225	SW	A15 E1	P-T7a s	Count of project ideas by PA	Project idea Trading	Me	whether and course for respectably admitted for project claim authorized 6.2 FM GO To chance (Del respectably). Admitted for project claim, the chance changeline of accurace. Por principal lay, respectably, respectably companies (17 Pm FM bulleting bullet in cut usual for a martin culti trapper because IT). Prefer to second cut cut mid this number of subdivisions from their account. Expert as the contract of the martin of subdivisions from their account. Expert as a way that may respirately report the section was called a a way that may respirately report the access contractions with EX subset at 32 occurates are account.	STP-T7a Number and source las reported by submitteely of project ideas submitted AS FAST Of the annual TPM research planning process by PA	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	N/A	n/a	h/A— TPMs will be used once 39 implentation contracts have been awarded.	0	3	a	thd*	the*	Date for this series will be global from 2 this series of the global from 2 through global from 2 through global from 3 through glob
226	SW	ALS ET	9-776 1	Count of project ideas by national labs	Project idea Trading	Me	whether and course for respectably admitted for project claim authorized 6.2 FM CO C season (DN courses principle) and course course crangeline of accurace. Por crainfall pile, resolubilities, respectable courses (T) 7.2 PM AN Individual to this cost usual for a restrict with trapper because (T) Preference on collection of this not usual for a restrict with trapper because (T) feet and control this number of subdivisions from their account. Targets and any that they respirately report the indicentement (TIP programs. Target and success may be updated in collaboration with 5.0 sher all 30 controls so award for their projective from the force of their project so award for their projective from the force of their project so award for their projective from the force of their projective so award of their projective from the force of their projective so award of their projective from their projective force of their projective so award of their projective force of their projective force and their projective force of their projective force and their projective and t	Number and source (as reported by submitter) of project ideas submitted AS FART OF the annual TPM research planning process by National Lab	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	N/A	n/a	h/A— TPMs will be used once 39 implentation contracts have been awarded.	0	i	s	thd*	the*	Date for this series will be global from 2 this series of the global from 2 through global from 2 through global from 3 through glob
227	SW	A15 E1	P-T7c s	Count of project ideas by manufacturers	Project idea Trading	Me	whether and course for respectably admitted for project claim authorized 6.2 FM CO C season (DN courses (DN)) course (DN) course (DN) course cropsgoinc of courses. Ph. a prison fill by consolidation, extract course (DN) courses (DN) cour	Number and source (as reported by submitter) of project ideas submitted AS FART OF the annual TFM research planning process by Manufacturer	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	N/A	n/a	h/A— TPMs will be used once 39 implentation contracts have been awarded.	0	i	s	thd*	the*	Date for this series will be global from 2 this series of the global from 2 through global from 2 through global from 3 through glob
228	SW	ALS ET	P-774 s	Count of project ideas by entrepreneurs	Project idea Trading	Me	havine and close place repends by exhibitery of project date submitted by the place of the submitted by the place of the p	Number and source (ix reported by submitter) of project ideas submitted AS FART OF the annual TPM research planning process by interpreneur	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	N/A	nga.	h/A— TPMs will be used once 39 implentation contracts have been awarded.		0	ś	thd*	the*	Date to the same and any planear from to the segmentary of the sea. (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat "Company Education part Turking (2017) Drough 127-18 are in a salar treat Turking (2017) Drough 127-18 are in a salar treat Turking (2017) Drough 127-18 are in a salar treat Turking (2017) Drough 127-18 are
329	SW	A16 E	TP-TR 1	Number of lists	Statewide Goal Alignment	ect Me	Let of ETP projects signed with casevaled great that were included in the reporting year with specificity as to what supect of each goal? In it difficie, Goals, will also be looked in the ETP detabase. A for of eligible goals will be developed collaboratively with EQ.	List of ETP projects aligned with statewide goals that were initiated in the reporting year with specificity as so what aspect of each goal it is sufficient	Emerging Technologies (ET)	N/A	N/A	N/A	N/A	N/A	The statewide goals to be tracked are still under collaborative discussion will £0 and not yet available; hence, no data will be reported for 2018	N/A - The statewide goals to be tracked are still under callaborative discussion with 6D and not yet available; hence, no data will be reported for 2019	N/A	N/A	N/A	3 lists cumulative	2 lists cumulative	Description of the property of

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

IGS Energy

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

Office of Ratepayer Advocates OnGrid Solar Pacific Gas and Electric Company Peninsula Clean Energy Pioneer Community Energy

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