California Public Utilities Commission

ADVICE LETTER SUMMARY

ENERGY UTILITY

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

Company name/CPUC Utility No.: Tri-County Regional Energy Network (3C-REN)/CPUC #220

Utility type:
[X] ELC [X] GAS [ ] WATER
[ ] PLC [ ] HEAT

Contact Person: Alejandra Tellez, County of Ventura
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EXPLANATION OF UTILITY TYPE
ELC = Electric GAS = Gas WATER = Water
PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)
11/08/2021

Advice Letter (AL) #:3C-REN AL 8-E/7-G (CPUC #220) Tier Designation: Tier II

Subject of AL: Compliance Filing of Energy Efficiency Rolling Portfolios Annual Budget Advice Letters (ABAL) for proceeding R.13-11-005 and A.17-01-013, et al. by the Tri-County Regional Energy Network (3C-REN).

Keywords (choose from CPUC listing):

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

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: In compliance with D.15-10-029, D.18-05-041, D.21-05-031 and D.21-09-037.

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: N/A

Summarize differences between the AL and the prior withdrawn or rejected AL: N/A

Confidential treatment requested? [ ] Yes [X] No

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

Resolution required? [ ] Yes [X] No

Requested effective date: 12/08/21 No. of tariff sheets: 0

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

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

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

Tariff schedules affected: N/A

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

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

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

Clear Form

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

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

Name: Susan Hughes
Title: Senior Deputy Executive Officer, Ventura County
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Name: Alejandra Tellez
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Clear Form

ENERGY Advice Letter Keywords

Affiliate	Direct Access	Preliminary Statement
Agreements	Disconnect Service	Procurement
Agriculture	ECAC / Energy Cost Adjustment	Qualifying Facility
Avoided Cost	EOR / Enhanced Oil Recovery	Rebates
Balancing Account	Energy Charge	Refunds
Baseline	Energy Efficiency	Reliability
Bilingual	Establish Service	Re-MAT/Bio-MAT
Billings	Expand Service Area	Revenue Allocation
Bioenergy	Forms	Rule 21
Brokerage Fees	Franchise Fee / User Tax	Rules
CARE	G.O. 131-D	Section 851
CPUC Reimbursement Fee	GRC / General Rate Case	Self Generation
Capacity	Hazardous Waste	Service Area Map
Cogeneration	Increase Rates	Service Outage
Compliance	Interruptible Service	Solar
Conditions of Service	Interutility Transportation	Standby Service
Connection	LIEE / Low-Income Energy Efficiency	Storage
Conservation	LIRA / Low-Income Ratepayer Assistance	Street Lights
Consolidate Tariffs	Late Payment Charge	Surcharges
Contracts	Line Extensions	Tariffs
Core	Memorandum Account	Taxes
Credit	Metered Energy Efficiency	Text Changes
Curtailable Service	Metering	Transformer
Customer Charge	Mobile Home Parks	Transition Cost
Customer Owned Generation	Name Change	Transmission Lines
Decrease Rates	Non-Core	Transportation Electrification
Demand Charge	Non-firm Service Contracts	Transportation Rates
Demand Side Fund	Nuclear	Undergrounding
Demand Side Management	Oil Pipelines	Voltage Discount
Demand Side Response	PBR / Performance Based Ratemaking	Wind Power
Deposits	Portfolio	Withdrawal of Service
Depreciation	Power Lines	

Clear Form

COUNTY of VENTURA
COUNTY EXECUTIVE OFFICE
MICHAEL POWERS
County Executive Officer

Mike Pettit
Assistant County Executive Officer

Kaye Mand
County Chief Financial Officer

Shawn Atin
Assistant County Executive Officer

November 8, 2021

California Public Utilities Commission
Energy Division Tariff Unit
505 Van Ness Ave.
Fourth Floor
San Francisco, CA 94102-3298

3C-REN Advice Letter 8-E/7-G
(CPUC # 220)

Tier Designation

This Advice Letter has a Tier 2 designation pursuant to Decision 18-05-041[1].

Subject

3C-REN 2022-2023 Energy Efficiency Biennial Budget Advice Letter

Purpose

The purpose of this Advice Letter is to seek approval for the 2022-2023 Energy Efficiency Biennial Program and Portfolio Budget request for the Tri-County Regional Energy Network ("3C-REN").

This Advice Letter is filed in compliance with Ordering Paragraph (OP) 4 of Decision 15-10-028, which directs program administrators to file a Tier 2 Advice Letter containing the budget for the next calendar year's EE portfolio; and with OP 41 of Decision 18-05-041, which directs PAs to include information identified in Section 7.2.

Background

The 3C-REN is a collaboration of three counties, Ventura, Santa Barbara, and San Luis Obispo, in the California Central Coast Region, with a diverse service area that is geographically isolated from utility hubs, has pockets of rural and disadvantaged communities, and large, underserved Spanish-speaking populations. After several years' experience and cooperative administration of energy and sustainability programs, the three counties formed the 3C-REN, led by the County of Ventura, to better

[1] See D. 18-05-041 page 58.

leverage resources in the delivery of effective programs on a regional level. In Decision 16-08-019[2], the California Public Utilities Commission ("CPUC" or "Commission") provided guidance for Energy Efficiency ("EE") Rolling Portfolio Business Plan ("BP") filings and included consideration of the formation of new Regional Energy Networks ("RENs"). Since filing 3C-REN's business plan to serve public agencies and their constituencies within Southern California Edison's ("SCE's"), Southern California Gas' ("SoCalGas's"), and Pacific Gas and Electric's ("PG&E's") service territories, 3C-REN has continued participation in the California Energy Efficiency Coordinating Committee ("CAEECC") process. 3C-REN remains intent on delivering programs that meet CPUC criteria as indicated by Decision 12-11-015 in the formation and implementation of programs including: filling gaps that the investor-owned utilities ("IOUs") are not serving; developing programs for hard-to-reach markets; and piloting new approaches to programs that have the potential to scale and offer innovative avenues to energy savings.

In Decision 14-10-046 the Commission authorized funding for EE programs until 2025. In 2015 the Commission issued Decision 15-10-028 approving the mechanics for EE rolling portfolio and outlining the business plan application process. On January 23, 2017 3C-REN filed a motion for approval of its rolling portfolio business plan and budget proposal. Decisions 15-10-028 and 18-05-041 provided the requirements of the Annual Budget Advice Letter ("ABAL") and directed Program Administrators to file ABALs. In Decision 19-05-019 the Commission directed the ABALs going forward to include the results of the Program Administrator Cost (PAC) and the Ratepayer Impact Measure (RIM) test and cost-effectiveness estimates.

This ABAL filing, is intended to formalize 3C-REN's annualized budget for program years 2022 and 2023 as directed in D.21-05-031, Program Administrators were directed to combine both into one Advice Letter[3].

As directed by D.18-05-041 and additional guidance provided by Commission staff, 3C-REN has submitted via CEDARS the 2022-2023 3C-REN Budget Filing; the confirmation receipt is attached hereto as Attachment 1. The Budget Filing Detail Report is publicly available on CEDARS.

Required Cost Effectiveness, Budget, Energy Savings and Metrics Components of ABAL[4]

1. 3C-REN 2022-2023 Budget Request

3C-REN, requests a total portfolio and Evaluation, Measurement and Verification ("EM&V") spending budget of $9,674,349 for Program Year (PY) 2022 and $12,681,304 for PY 2023. The spending budget for PY 2022 is within the limits of the approved annual budget. The spending budget for PY 2023 is higher than the forecasted annual budget approved and still within the 20 percent limit by which the Commission expressly allows staff discretion to dispose of 3C-REN's portfolio budget[5]. The budget and savings portfolio details are reflected in Table 1 for PY 2022 and Table 2 for PY 2023.

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[2] See D.16-08-019 page 10.
[3] D.21-05-031 at 52. The date to file the combined two year ABAL was extended to November 1, 2021, and later extended to November 8, 2021, by via letter of grant from Edward Randolph, Deputy Executive Director for Energy and Climate Policy.
[4] See D. 18-05-041 at 124-127.
[5] D.18-05-041, at 134.

Table 1: 3C-REN 2022 Budget and Savings (Net)[6]

Line	Sector	Program Year (PY) 2022 Budget	FORECAST ENERGY SAVINGS (Net) PA forecast kWh	PA forecast kW	PA forecast therms (MM)	PA Forecast Elec CO2	PA Forecast GasCO2
	Resource Acquisition Program Segment						
	Residential	$0	-	-	-	-	-
1	WE&T	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$0**	**-**	**-**	**-**	**-**	**-**
	Resource Acquisition Forecasted Total System Benefit (TSB)	$0					
	Resource Acquisition Forecasted Total Resource Cost (TRC)	$0					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$0					
	Market Support Program Segment						
	Residential	$0	-	-	-	-	-
1	WE&T	$1,848,046	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$1,848,046**	**-**	**-**	**-**	**-**	**-**
	Resource Acquisition Forecasted Total System Benefit (TSB)	$0					
	Portfolio Forecasted Total Resource Cost (TRC)	$1,848,046					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$1,848,046					
	Equity Program Segment						
	Residential	$5,632,284	-	-	-	-	-
1	WE&T	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$5,632,284**	**-**	**-**	**-**	**-**	**-**
	Resource Acquisition Forecasted Total System Benefit (TSB)	$3,697,288					
	Portfolio Forecasted Total Resource Cost (TRC)	$7,321,280					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$5,726,988					
	Portfolio						
	Residential	$5,632,284	2,080,231	274	0	444	679
1	WE&T	$1,848,046	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$7,480,330**	**2,080,231**	**274**	**0.09**	**444**	**679**
5	**CPUC Savings Goal (w/o C&S)**		2,080,231	274	0.09	444	679
6	**Forecast savings as % of CPUC Savings Goal (w/o C&S)**	NA	100.0%	100.0%	100.0%	100.0%	100.0%
7	**Total EM&V** [7]	$386,974					
7a	PA EM&V	$106,418					
7b	ED EM&V	$280,556					
	Portfolio Forecasted Total System Benefit (TSB)	$3,697,288					
	Portfolio Forecasted Total Resource Cost -TRC (w/o C&S and w/ EM&V)	$9,556,300					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$9,769,053					
	Portfolio Forecasted Ratepayer Impact Measure (RIM)	$9,769,053					
8	**Codes and Standards**	$1,807,045					
9	**PA Spending Budget Request**[1]	$9,674,349					
10	**(LESS) PA Uncommitted and Unspent Carryover Balance**[2]	$8,139,497					
11	**CEC AB 841 Program Funding** [3]						
12	Applicable percentage (70%) of difference between funding limitation	$0					
13	PA 2020 and Beyond Uncommitted and Unspent Carryover Balance [4]	$0					
14	**CEC AB 841 Total Program Funding**	$0					
15	**PA Revenue Requirement Request (Cost Recovery)** [5]	$1,534,852					
	% of Equity and Market Support Program Budgets to PA Spending Budg	77%					
16	**PA Authorized Budget Cap (D.18-05-041)**	$6,929,393					
	For CCA & RENS in IOU Service Territory Only--(IOU PA Only to complete)						
17	**Total PA (IOU+CCAs+RENs) Recovery Budget**[6]	$1,534,852					

[1] This is 3C-REN's requested EE Portfolio budget.

[2] The balance of unspent uncommitted must reflect the total unspent uncommitted from pre-2020 EE authorized budgets Jan 1 2018 through Dec 31 of current year (PY-1). For PY 2022, this includes unspent/uncommitted for PY 2019-2020. Fro PY 2023, this includes projected unspent/uncommitted for PY 2021. Because each ABAL is filed in Q3, this unspent uncommitted amount will be an estimate for the year in which the ABAL is filed. AB 841 does not apply to RENs; therefore these amounts include 2020 and Beyond Uncommitted and Unspent Carryover.

[3] See D.21-01-004 Tables 2 (2022) and 3 (2022)

[4] Because each ABAL is filed in Q3, this unspent uncommitted amount will be an estimate for the year in which the ABAL is filed.

[5] The amount of funds to be collected (cost recovery) for the PA EE Program Year = Line 9 - Line 10 + Line 12

[6] Total amount to be requested in IOU's PPP advice letter for their programs, RENs and CCAs in their service territory, Line 15+ Line 21 + Line 22

[7] For 3C-REN, the total EM&V includes EM&V-PA Budget and EM&V-ED with the understanding that EM&V-ED will remain with the IOUs.

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[6] 3C-REN's 2022 Budget and Savings table has been modified to show only sectors with planned program activity and formatted to fit this page. The full version of the table has been uploaded to CEDARS in the original format and included as Attachment A to this filing.

Table 2: 3C-REN 2023 Budget and Savings (Net)[7]

Line	Sector	Program Year (PY) 2023 Budget	FORECAST ENERGY SAVINGS (Net) PA forecast kWh	PA forecast kW	PA forecast therms (MM)	PA Forecast Elec CO2	PA Forecast GasCO2
	Resource Acquisition Program Segment						
	Residential	$0	-	-	-	-	-
1	WE&T	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$0**	**-**	**-**	**-**	**-**	**-**
	Resource Acquisition Forecasted Total System Benefit (TSB)	$0					
	Resource Acquisition Forecasted Total Resource Cost (TRC)	$0					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$0					
	Market Support Program Segment						
	Residential	$0	-	-	-	-	-
1	WE&T	$1,910,021	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$1,910,021**	**-**	**-**	**-**	**-**	**-**
	Resource Acquisition Forecasted Total System Benefit (TSB)	$0					
	Portfolio Forecasted Total Resource Cost (TRC)	$1,910,021					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$1,910,021					
	Equity Program Segment						
	Residential	$8,380,010	-	-	-	-	-
1	WE&T	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$8,380,010**	**-**	**-**	**-**	**-**	**-**
	Resource Acquisition Forecasted Total System Benefit (TSB)	$5,849,799					
	Portfolio Forecasted Total Resource Cost (TRC)	$10,181,628					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$8,493,554					
	Portfolio						
	Residential	$8,380,010	3,117,922.41	711.68	0.12	689.26	871.45
1	WE&T	$1,910,021	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$10,290,031**	**3,117,922**	**712**	**0.12**	**689**	**871**
5	**CPUC Savings Goal (w/o C&S)**		3,117,922	712	0.12	689	871
6	**Forecast savings as % of CPUC Savings Goal (w/o C&S)**	NA	100.0%	100.0%	100.0%	100.0%	100.0%
7	**Total EM&V** [7]	$507,252					
7a	PA EM&V	$139,494					
7b	ED EM&V	$367,758					
	Portfolio Forecasted Total System Benefit (TSB)	$5,849,799					
	Portfolio Forecasted Total Resource Cost -TRC (w/o C&S and w/ EM&V)	$12,598,901					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$12,794,849					
	Portfolio Forecasted Ratepayer Impact Measure (RIM)	$12,794,849					
8	**Codes and Standards**	$1,884,021					
9	**PA Spending Budget Request**[1]	$12,681,304					
10	**(LESS) PA Uncommitted and Unspent Carryover Balance**[2]	$4,916,888					
11	**CEC AB 841 Program Funding**[3]						
12	Applicable percentage (70%) of difference between funding limitation	$0					
13	PA 2020 and Beyond Uncommitted and Unspent Carryover Balance [4]	$0					
14	**CEC AB 841 Total Program Funding**	$0					
15	**PA Revenue Requirement Request (Cost Recovery)** [5]	$7,764,417					
	% of Equity and Market Support Program Budgets to PA Spending Budg	81%					
16	**PA Authorized Budget Cap (D.18-05-041)**	$7,206,568					
	For CCA & RENS in IOU Service Territory Only--(IOU PA Only to complete)						
17	**Total PA (IOU+CCAs+RENs) Recovery Budget**[6]	$7,764,417					

[1] This is 3C-REN's requested EE Portfolio budget.

[2] The balance of unspent uncommitted must reflect the total unspent uncommitted from pre-2020 EE authorized budgets Jan 1 2018 through Dec 31 of current year (PY-1). For PY 2022, this includes unspent/uncommitted for PY 2019-2020. Fro PY 2023, this includes projected unspent/uncommitted for PY 2021. Because each ABAL is filed in Q3, this unspent uncommitted amount will be an estimate for the year in which the ABAL is filed. AB 841 does not apply to RENs; therefore these amounts include 2020 and Beyond Uncommitted and Unspent Carryover.

[3] See D.21-01-004 Tables 2 (2022) and 3 (2022)

[4] Because each ABAL is filed in Q3, this unspent uncommitted amount will be an estimate for the year in which the ABAL is filed.

[5] The amount of funds to be collected (cost recovery) for the PA EE Program Year = Line 9 - Line 10 + Line 12

[6] Total amount to be requested in IOU's PPP advice letter for their programs, RENs and CCAs in their service territory, Line 15+ Line 21 + Line 22

[7] For 3C-REN, the total EM&V includes EM&V-PA Budget and EM&V-ED with the understanding that EM&V-ED will remain with the IOUs.

[7] 3C-REN's 2023 Budget and Savings table has been modified to show only sectors with planned program activity and formatted to fit this page. The full version of the table has been uploaded to CEDARS in the original format and included as Attachment A to this filing.

2. Sector-Level Metrics

As directed in D.18-05-041 Ordering Paragraph 9, the metrics, targets and indicators for 3C-REN's portfolio and specific programs, were filed on May 1, 2021 along with 3C-REN's 2020 Annual Energy Efficiency Report.

3. Proposed Updated 2022-2023 Portfolio Goals

As incorporated in D.21-09-037, "potential studies estimate savings potential according to investors owned utilities (IOU) service territory and not according to the areas served by non-IOU program administrators," therefore the goals set by the Commission "apply to IOU program administrators and not to non-IOU program administrators." 3C-REN hereby proposes to update its portfolio goals in accordance with D.21-09-037 to account for the significant changes to avoided costs inputs, impacts of the COVID-19 pandemic, a focus on decarbonization, retirement of energy efficiency measures, and availability of new technologies – all of which impact the potential to reach the goals set in the 2019 ABAL true-up tables.

	PY 2022			PY 2023		
Sector	**Net kWh**	**Net kW**	**Net Therm**	**Net kWh**	**Net kW**	**Net Therm**
Residential	2,080,230.89	274.49	86,998.82	3,117,922.41	711.68	118,170.21
Workforce Education & Training	-	-	-	-	-	-
Codes & Standards	-	-	-	-	-	-
Total	**2,080,230.89**	**274.49**	**86,998.82**	**3,117,922.41**	**711.68**	**118,170.21**

4. Discussion of Proposed Program and Portfolio Changes

All 3C-REN programs are designed to align with the criteria established in D.12-11-005.

Residential Sector

The 3C-REN offers a Residential program (Home Energy Savings) designed to fill gaps in current IOU offerings for the 3C-REN territory, as the region is far removed from IOU outreach and implementation efforts. The 3C-REN Region is served by three different IOUs – PG&E to the north, SCE to south, SoCalGas in all three counties – with overlapping electrical services in Santa Barbara and Ventura. This increased coverage has not resulted in a higher level of service, but instead led to increased customer confusion due to different programs, requirements and providers.

Additionally, most of the homes in the tri-county region were built prior to the existence of the California energy code. As a result, homes use more energy, cost more, and are less comfortable, while the cost for improving these conditions through energy efficiency is often prohibitive for residents. Historically, residential energy efficiency programs have either been too prescriptive and required expensive, whole-home retrofits, or been limited to low-income households. This has made necessary energy improvements to housing stock inaccessible to a large portion of the population.

The 3C-REN Residential program targets HTR residential customers, including single-family and multi-family, renters and owners, and moderate-income families not currently being served by, nor meeting the criteria of current ESA, LIHEAP, or MIDI in Ventura, Santa Barbara and San Luis Obispo Counties. The Residential program includes two sub-programs, single-family and multi-family, designed to address the barriers and service gaps described above.

Multifamily Sub-Program (TCR-Res-002)

In October 2021, 3C-REN launched the multifamily sub-program. The multifamily sub-program is designed to serve hard-to-reach (HTR) multi-family building owners, renters and Disadvantaged Communities (DACs) in Ventura, Santa Barbara and San Luis Obispo Counties. The program is a multi-measure, whole-building EE rebate program marketed to multi-family property owners and managers with the intent that the investments in multifamily properties will benefit both the manager/owner and the residents of the properties who often pay the energy bills directly.

Multifamily properties with five or more units are eligible to participate. The program includes site assessments, technical assistance, and a rebate structure that is based on the number of units in the complex. To qualify for the rebates, there are minimum GHG savings per apartment requirements that are calculated based on energy upgrade plans. The incentive structure also includes enhanced incentives for underserved properties and adders for higher performance measures, such as heat pumps.

To participate in the program, property owners/managers (participants) can sign up on the 3C-REN website. Marketing efforts to drive participants to sign up will include events, calls, emails, etc. Following sign up, participants will work with a Technical Assistant (TA) to conduct an energy assessment to identify energy upgrades and associated GHG savings predictions and develop a project scope. Once the scope has been developed (that meets the GHG savings requirements), a rebate will be reserved for the participant. The participant is responsible for implementing the

project scope. It is expected that participants will work with contractors that they already have relationships with, or to review quotes from other area contractors. Although the responsibility lies with the participant to implement the project scope, the TA will provide assistance throughout the bid process and construction of the project. Technical assistance will also include support in identifying financing and accessing additional incentives beyond those offered in this program. Once construction is completed, the TA will verify the project and process incentive payments, which are paid directly to the participant.

The project scopes for each property will vary based on energy assessments, but can include whole building, common area, and in-unit measures. Domestic hot water, HVAC, building envelope, appliances, and lighting. Other operational measures may also be included in the project scope.

Single Family Sub-Program (TCR-Res-003)

The single-family sub-program targets hard-to-reach (HTR) single family residential customers, including renters and owners, and Disadvantaged Communities (DACs) in Ventura, Santa Barbara and San Luis Obispo Counties. The 3C-REN seeks to improve the energy savings of the single-family sub-program. Therefore, 3C-REN is terminating the contract with the direct install (DI) implementer of the single-family sub-program on December 31, 2021. 3C-REN seeks to modify the single-family sub-program through an approach that is no longer focused on DI, but rather delivers incentives based on metered savings, applying a population Normalized Metered Energy Consumption (NMEC) approach.

The updated single-family sub-program will rely on a network of EE contractors that opt into the implementer's program as “aggregators”. The aggregators will work directly with single family residents to sell and install EE measures. The aggregators will be paid incentives based on the metered savings following the EE upgrades on an ongoing basis. The aggregators can offer a suite of measures that generate kWh, kW, and therm savings, which could include lighting, HVAC, water heaters, insulation, smart thermostats, water heater controls, and storage. The program does not have a list of eligible measures, but rather allows for customized solutions. Therefore, aggregators could potentially deliver DI measures from utility programs or identify measures with direct incentives to offer through this program as part of their customized energy solutions. The flexibility of the approach will allow for aggregators to work directly with customers to meet their needs in identifying projects that result in metered energy savings.

In order to increase participation from HTR customers, the program will offer an incentive multiplier for metered savings in DACs and other target markets. Incentive multipliers will also be developed for metered gas savings so that electrification projects are marketable in the program. The incentive structure is designed so that aggregators have a vested interest in the ongoing performance and associated energy savings of the work that they do. The incentives are paid directly to the aggregator, but it is expected that the savings will flow down to the residential customers as aggregators can offer more competitive pricing based on expected incentive payments, and especially competitive pricing in sectors with incentive multipliers.

Direct Install Residential Program, (TCR-Res-001) shall be $0.0 as this program is proposed to be closed.

In 2021 3C-REN conducted research and surveys to explore possible approaches to single family taking into account the lessons learned from TCR-Res-001 program implementation. Once the research was completed, 3C-REN solicited proposals for implementation to serve single family customers. The research and development, solicitations, program design and program development were funded from the original TCR-Res-001 program which is being proposed to be closed. The new single-family program will deliver measurable energy savings targeted towards Hard to Reach (HTR) single-family households in the 3C-REN service territory. Savings will be claimed using a population Normalized Metered Energy Consumption (NMEC) Measurement and Verification (M&V) platform. The program implementer will deliver energy upgrades utilizing a network of energy efficiency installers (aggregators) who will be paid incentives based on the metered savings achieved with their installations. Performance incentives will push aggregators to maximize both customer savings and grid benefits.

A Workforce Education and Training and Codes and Standards overlay is included in both sub-programs. 3C-REN will work with the implementer of the single-family sub-program to help build their contractor base (aggregators) and provide training. 3C-REN will also provide code coaching for permitted projects in both sub-programs. The multi-family sub-program may also provide opportunities for in-field training for local contractors.

Codes and Standards (C&S) (TCR-CS-001)

3C-REN offers a cross-cutting C&S program designed to fill gaps in current IOU offerings for the 3C-REN territory because the region is far removed from IOU training & resource hubs. The 3C-REN C&S program offers three services: local, in-person and online energy code trainings; Regional Forums; and an Energy Code Coach service available to public and private sector building professionals. The main goal of 3C-REN C&S program is to foster greater comprehension and consistency in compliance and enforcement throughout the Tri-County Region, providing the workforce with a more stable business climate and known code compliance resources.

The Energy Code Coach service is available online, over the phone, over the counter, or in the field and will provide support and mentoring related to Title 24, Parts 6 and 11 comprehension, compliance, and enforcement. In 2022-2023, the Energy Code Coach will be offering text inquiries to building professionals so they can easily reach an Energy Code Coach and get quick answer in the field. Energy Code Coach also develops resources and educational courses for 3C-REN that have been used/taken to great success over the past two years and looks to improve with greater success in the years to come. To date, the Energy Code Coach has answered over 150 questions for local public and private sector building professionals.

3C-REN has been successful in delivering tailored educational courses that meet the needs of public and private sector building professionals across the region. Currently all educational courses are offered online but 3C-REN looks forward to offering more content in person in the future. 3C-REN's Regional Forums tackle broader and complex technical and policy issues with a bend toward energy efficiency. Regional Forums, while offered online for the past year and a half, are a great opportunity for building professionals and others to learn and network. Regional Forums are offered three times per year (winter, spring/summer, and fall) and have been very successful in bringing hundreds of people together to discuss hot topics in the state. Upcoming Regional Forums will focus on the role energy efficiency plays in densification as well as an overview of the 2022 Energy Code.

In addition to the services above, 3C-REN's C&S program seeks to develop and implement a Reach Code support program for jurisdictions seeking to implement one. Stakeholder engagement and input will be critical to the development of this service and staff looks to mirror existing services from other IOUs that do not reach completely into the Tri County region.

3C-REN coordinates with BayREN, CEC, and the IOUs to leverage existing local and Statewide C&S resources and energy code compliance and enforcement resources in support of its C&S program services.

The program budget for 3C-REN C&S, (TCR-CS-001) shall be $.

The target audience is construction design-side stakeholders, including building departments, architects, field inspectors, mechanical engineers, and plan checkers. This is a non-resource program.

Workforce, Education and Training (WE&T) (TCR-WET-001)

The 3C-REN offers a cross-cutting WE&T program designed to fill gaps in current IOU[8] offerings for the 3C-REN territory, as the region is far removed from IOU training & resource hubs. The in-person and hands on IOU training and education programs require substantial travel to energy centers outside of the Tri-County area and are often not designed to meet the needs of local building professionals. The 3C-REN program will offer career pathways and enrichment by providing access to in-person trainings, mentorship opportunities and cross promotion of IOU workforce trainings, including hard-to-reach (HTR) workers and those in identified disadvantaged communities (DACs).

Building professionals living and working in the 3C-REN territory face unique challenges given the dispersed nature of communities within the Tri-County Region. The region, and its building professional workforce, have historically struggled to fill key positions in energy efficiency, including the retrofit market and energy code compliant new construction. The 3C-REN WE&T activities will address these challenges through collaboration with existing providers, programs, apprenticeship-style learning, targeted management, technical trainings for building professionals, and integrated resources for design and compliance professionals.

The program vision is to delivers technical and soft skill trainings and certifications focused on high performance buildings (i.e., energy efficient and resilient buildings). The program supports building professionals and those seeking career pathways in residential and commercial design, construction, and related industries. Trainings are delivered locally and designed to meet the unique needs of the Tri-County region.

Example learning targets include technical skills for the application of Title 24, net zero energy and carbon, healthy and resilient buildings, valuation of high-performance homes, and business development skills.

The 3C-REN applies a holistic approach to the market with highly targeted training events, using apprenticeship and mentoring style models to enhance the workforce within the 3C-REN territory. Workforce training will be real world reinforced while simultaneously influencing direct energy

[8] For the purposes of this ABAL, the IOUs consist of SoCalGas, SCE and PG&E.

savings. As a result of a stronger workforce, building departments will increase efficiency and efficacy with existing resources.

3C-REN WE&T program is slowly building trust in the region and seeks to become a convener who brings together business, labor, education, and economic development to focus on community workforce issues and enhance the region's ability to meet the workforce needs of local employers

The program targets local building professionals needing more in-depth training, such as contractors, HVAC, engineers, architects, designers, certified energy managers, local jurisdictions' building & safety department staff, lighting professionals, real estate professionals, raters, including professionals in DACs and HTR areas, as well as other key market actors.

The 3C-REN's WE&T program is non-resource and will serve to support 3C-REN and IOU programs in the region by training the workforce that can deliver resource programs.

5. Strategies for increased cost-effectiveness

By the very nature of how REN activities are defined (e.g., "pilot activities in hard-to-reach markets") RENs address market segments that are typically not as cost-effective. Nevertheless, it is 3C-REN's intention to develop improved programs that enhance services, cost and energy savings, and deliver other benefits to increase participation while continuing to improve overall cost-effectiveness. 3C-REN will engage in activities that serve hard-to-reach customers who have not had access to or generally have not participated in energy efficiency programs.

While 2020 was 3C-REN's first full year of program delivery in all three sectors, with a directive to be more cost-effective, 3C-REN's forecasted energy savings are projected to improve over time. 3C-REN has one resource program, Residential Program. Strategies for increasing the cost effectiveness of this program in 2022-2023 include:

- Residential Program
    - Agile program design and deployment
    - Leveraging existing infrastructure, marketing and outreach activities of local non-profits, who currently deliver low-income energy efficiency programming
    - Collaborative and coordinated approach with PG&E, SCE, and SoCalGas
    - Working with community choice energy providers leverage complimentary program offerings or jointly develop programs.
    - Scale up participation to improve cost effectiveness
    - Analysis of program processes to facilitate continual process improvements that increase efficiency and reduce costs
    - Evaluation of emerging trends and available measure mix to identify additional measures that have the potential to improve cost effectiveness

RENs excel at locally adapted programming and providing on-the-ground engagement, which complement and enhance IOU programs. RENs offer innovative program delivery that has strong potential for success and scalability to engage hard-to-reach markets. The RENs should be evaluated as a complimentary addition to the IOU Statewide programs.

6. Portfolio Changes, Annual Spending, and Fund Shifting

The COVID-19 pandemic continues to have immediate and significant impact to Central Coast residents and workforce. In-person trainings and outreach quickly pivoted to online trainings and virtual energy efficiency audits. The Residential single-family program halted in-person audits and equipment installation in March following adoption of local ordinances and direction from Public Health officials in each county and began offering virtual assessments and self-install energy savings starter kits. In 2022 and beyond 3C-REN will continue to focus on capacity building and economic support for the Tri-County region's workforce, with continued and increased online and in-person training. In addition, 3C-REN's C&S program will develop and implement a Reach Code technical support service staff will work with IOU's and coordinate and complement the existing services from IOUs that do not reach completely into the Tri County region.

7. List of Attachments

Attached to this advice letter are the following:

- Attachment A: ABAL Attachment A
- Attachment B: Supplemental Budget Filing
- Attachment C: CEDARS Confirmation Sheet
- Attachment D: Proposed Portfolio Segmentation

8. Protest

Anyone may protest this Advice Letter. The protest must state the grounds upon which it is based. The protest must be made in writing and received by the Commission within 20 days of the date this Advice Letter was filed with the Commission, on or before November 28, 2021. There is no restriction on who may file a protest. The address for mailing or delivering a protest to the Commission is:

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

Copies of the protest should also be sent via e-mail to the attention of the Energy Division at EDTariffUnit@cpuc.ca.gov. It is also requested that a copy of the protest be sent by email to address shown below on the same date it is mailed or delivered to the Commission.

Susan Hughes
Senior Deputy Executive Officer
Ventura County
800 S. Victoria Avenue
Ventura, CA 93009
Telephone: 805-654-3836
Facsimile: 805-654-5106
Email: susan.hughes@ventura.org

Alejandra Tellez
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Telephone: 805-654-3835
Facsimile: 805-654-5106
E-mail: Alejandra.Tellez@ventura.org

Effective Date

3C-REN requests that this Tier 2 advice filing become effective on regular notice December 1, 2021, which is 30 calendar days from the date of this filing.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to service list for R.13-11-005 and A17-01-013. Address changes to the General Order 96-B service list should be directed to Alejandra Tellez at Alejandra.tellez@ventura.org or by calling 805-654-3835. For changes to all other service lists, please contact the Commission's Process Office at 415-703-2021 or by electronic mail at Process_Office@cpuc.ca.gov.

Alejandra Tellez

ALEJANDRA TELLEZ,
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For the 3C-REN, Tri-County Regional Energy Network

Tri-County Regional Energy Network (3C-REN)

Advice Letter 8-E/7-G

2022-2023 BBAL

Attachment A

Pa Name: Tri-County Regional Energy Network
Budget Ye 2022-2023

Spending Budget Comparison

	2022	2023
Tab 3 - PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	$ 9,674,349	$ 12,681,304
Tab 4 - PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	$ 9,674,349	$ 12,681,304
Tab 7 - PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	$ 9,674,349	$ 12,681,304
Tab 8 - PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	$ 9,674,349	$ 12,681,304
Tab 9 - PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	$ 9,674,350	$ 12,681,304
Difference	ERROR	-

Revenue Requirement or Cost Recovery Comparison

	2022	2023
Tab 4 - PA Revenue Requirement Request	$ 9,596,698	$ 12,681,304
Tab 7 - PA Revenue Requirement Request (Cost Recovery)	$ 1,534,852	$ 7,764,417
Difference	8,061,845.76	4,916,887.71

	2022				2023			
Program Budget by Cost Category	**Admin**	**Mktg**	**DINI**	**DI Incentive**	**Admin**	**Mktg**	**DINI**	**DI Incentive**
Tab 4 - Program Budgets	$ 824,397	$ 411,071	$ 5,222,844	$ 2,829,063	$ 899,763	$ 424,445	$ 5,753,907	$ 5,095,937
Tab 8 - Caps & Targets	$ 824,397	$ 411,071	$ 5,222,844	$ 2,829,063	$ 899,763	$ 424,445	$ 5,753,907	$ 5,095,937
Difference	-	-	-	-	-	-	-	-
Tab 9 - Incentives Column, EE Total				$ 2,829,063				$ 5,095,937
Difference				-				-

Unspent/Uncommitted compared to CEC 2020 and beyond

	2022	2023
Tab 4 - CEC value 2020 and Beyond amount	$ -	$ -
Tab 3 - Table 3d - 2020 and 2021 Unspent/Uncommitted	$ 3,507,440	$ 4,916,888
Difference	(3,507,439.88)	(4,916,887.71)

	2022										
Portfolio Budget Total vs Budget by Function Summary Total	**Residential**	**Commercial**	**Industrial**	**Agricultural**	**Public**	**Emerging Tech**	**Codes & Standards**	**WE&T**	**Finance**	**Cross Cutting**	**OBF Loan Pool**
Tab 7 - PA Portfolio Budget by Function	$ 5,632,284.00	$ -	$ -	$ -	$0	$0	$1,807,045	$ 1,848,046.00	$ -	$ 3,655,091.00	$ -
Tab 9 - PA Portfolio Budget by Function	$ 5,632,285.00	$ -	$ -	$ -	$ -					$ 3,655,091.00	$ -
Difference	(1.00)	-	-	-	-					-	-

	2023										
	Residential	**Commercial**	**Industrial**	**Agricultural**	**Public**	**Emerging Tech**	**Codes & Standards**	**WE&T**	**Finance**	**Cross Cutting**	**OBF Loan Pool**
Tab 7 - PA Portfolio Budget by Function	$ 8,380,010.27	$ -	$ -	$ -	$0	$0	$ 1,884,021.00	$ 1,910,021.00	$ -	$ 3,794,042.00	$ -
Tab 9 - PA Portfolio Budget by Function	$ 8,380,010.27	$ -	$ -	$ -	$ -					$ 3,794,042.00	$ -
Difference	-	-	-	-	-					-	-

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
(This Table applies only to the IOU PAs)

Table 1 -Bill Payer Impacts - Rates by Customer Class				
	Electric Average Rate (Res and Non-Res) $/kwh	**Gas Average Rate (Res and Non-Res) $/therm**	**Total Average Annual Bill Savings by Year ($)**	**Total Average Lifecycle Bill Savings ($)**
Present Rates - System Average				
2021*				
2022				
2023				

* = Based on [relevant date] current effective rates

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

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

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
(This Table applies only to the IOU PAs)

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

Customer Classes	2021 Proposed Energy Efficiency Electric Annual Revenue Change $000	2021 Proposed Percentage Change In Electric Revenue and Rates	2021 Electric Average Rate $/kWh	2021 Energy Efficiency Portion of Electric Average Rate $/kWh	2022 Proposed Energy Efficiency Electric Annual Revenue Change $000	2022 Proposed Percentage Change In Electric Revenue and Rates	2022 Electric Average Rate $/kWh	2022 Energy Efficiency Portion of Electric Average Rate $/kWh	2023 Proposed Energy Efficiency Electric Annual Revenue Change $000	2023 Proposed Percentage Change In Electric Revenue and Rates	2023 Electric Average Rate $/kWh	2023 Energy Efficiency Portion of Electric Average Rate $/kWh

* = Based on [relevant date] current effective rates

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

Customer Classes	2021 Proposed Energy Efficiency Gas Annual Revenue Change $000	2021 Proposed Percentage Change In Gas Revenue and Rates	2021 Gas Average Rate $/kWh	2021 Energy Efficiency Portion of Gas Average Rate $/kWh	2022 Proposed Energy Efficiency Gas Annual Revenue Change $000	2022 Proposed Percentage Change In Gas Revenue and Rates	2022 Gas Average Rate $/kWh	2022 Energy Efficiency Portion of Gas Average Rate $/kWh	2023 Proposed Energy Efficiency Gas Annual Revenue Change $000	2023 Proposed Percentage Change In Gas Revenue and Rates	2023 Gas Average Rate $/kWh	2023 Energy Efficiency Portion of Gas Average Rate $/kWh

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023

Table 3 - Budget and Cost Recovery by Funding Source

Table 3a - PA Spending Budget Request by Funding Source

PA EE Programs and EM&V	2022	2023
Annual PA Spending Budget Request (Program and EM&V total)	$ 9,674,349	$ 12,681,304
CEC AB 841 Program Budget Request		
Applicable percentage of difference between funding limitation and 2020 budget (70% for 2022 and 60% for 2023) [1]	$ -	$ -
Plus 2020 and Beyond Uncommitted and Unspent Carryover Balance	$ -	$ -
PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	**$ 9,674,349**	**$ 12,681,304**

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

Table 3b - Budget by Funding Source

Portfolio Budget (Before Carryover)	2022 Budget	2022 %Allocation	2023 Budget	2023 %Allocation
Electric Procurement EE Funds	$ 7,739,479	80%	$ 10,145,044	80%
Gas PPP Surcharge Funds	$ 1,934,870	20%	$ 2,536,261	20%
Total Funds	**$ 9,674,349**		**$ 12,681,304**	

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

Authorized Funding in Rates (including Unspent/Uncommitted Funds)	2022 Revenue Requirement	2022 %Allocation after Carryover adjustment	2023 Revenue Requirement	2023 %Allocation after Carryover adjustment
Electric Procurement EE Funds	$ 1,227,882	80%	$ 6,211,533	80%
Gas PPP Surcharge Funds	$ 306,970	20%	$ 1,552,883	20%
Total Funds	**$ 1,534,852**		**$ 7,764,417**	

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

	2022			2023		
Program Unspent/Uncommitted Funds	**Electric**	**Gas**	**Total**	**Electric**	**Gas**	**Total**
Pre-2020	$ 3,586,265	$ 896,566	$ 4,482,831	$ -	$ -	$ -
2020	$ 2,805,952	$ 701,488	$ 3,507,440	$ -	$ -	$ -
2021	$ -	$ -		$ 3,933,510	$ 983,378	$ 4,916,888
2022 [2]				$ -	$ -	$ -
Total	$ 6,392,217	$ 1,598,054	$ 7,990,271	$ 3,933,510	$ 983,378	$ 4,916,888

	2022			2023		
EM&V Unspent/Uncommitted Funds	**Electric**	**Gas**	**Total**	**Electric**	**Gas**	**Total**
Pre-2020	$ 62,121	$ 15,530	$ 77,651	$ -	$ -	$ -
2020 [2]	$ 57,260	$ 14,315	$ 71,575	$ -	$ -	$ -
2021 [2]	$ -	$ -	$ -	$ -	$ -	$ -
2022 [2]				$ -	$ -	$ -
Total	$ 119,380	$ 29,845	$ 149,226	$ -	$ -	$ -

	2022			2023		
Total Unspent/Uncommitted Funds	**Electric**	**Gas**	**Total**	**Electric**	**Gas**	**Total**
Pre-2020	$ 3,648,386	$ 912,096	$ 4,560,482	$ -	$ -	$ -
2020 [2]	$ 2,863,212	$ 715,803	$ 3,579,014	$ -	$ -	$ -
2021 [2]	$ -	$ -	$ -	$ 3,933,510	$ 983,378	$ 4,916,888
2022 [2]				$ -	$ -	$ -
Total	$ 6,511,597	$ 1,627,899	$ 8,139,497	$ 3,933,510	$ 983,378	$ 4,916,888

Notes on Table 3d

Any actual uncommitted/unspent funds for 2023 will be trued-up in the IOU's respective electric and gas PPP annual rates advice letter for 2023.

3C-REN's uncommitted/unspent funds in tables 3.c. and 3.d. are for the purposes of tracking 3C-REN's unspent/uncommitted funds from the Business Plan and ABAL approved budgets for PY 2019, 2020, and 2021. 3C-REN's uncommitted/unspent tables are not intended to directly inform or substitute for PG&E, SoCalGas and SCE's revenue and rates, as they maintain their own accounting.
3C-REN's uncommitted/unspent funds for PY 2019 and 2020 were applied to PY 2022; 3C-REN's projected uncommitted/unspent for 2021 are applied to PY 2023.

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

	2022				2023			
	Demand Response	**Energy Efficiency**			**Demand Response**	**Energy Efficiency**		
	Electric Demand Response Funds	**Electric Energy Efficiency Funds**	**Natural Gas Public Purpose Funds**	**Total Energy Efficiency Funds**	**Electric Demand Response Funds**	**Electric Energy Efficiency Funds**	**Natural Gas Public Purpose Funds**	**Total Energy Efficiency Funds**
Program Funds - PA [4]	$ -	$ 918,303	$ 229,576	$ 1,147,878	$ -	$ 5,805,732	$ 1,451,433	$ 7,257,165
Program Funds - CEC [5]		$ -	$ -	$ -		$ -	$ -	$ -
Program Funds - REN [5]		$ -	$ -	$ -		$ -	$ -	$ -
Program Funds - CCA [5]		$ -	$ -	$ -		$ -	$ -	$ -
EM&V [3]		$ 309,579	$ 77,395	$ 386,974		$ 405,802	$ 101,450	$ 507,252
Budget Total	**$ -**	**$ 1,227,882**	**$ 306,970**	**$ 1,534,852**	**$ -**	**$ 6,211,533**	**$ 1,552,883**	**$ 7,764,417**

Notes:

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, D.18-05-041 and D.21-01-004.

2 REN and CCA information provided by all RENS and CCAs and is consistent with their respective ABALs. 3C-REN's unspent and uncommitted estimates are not used for revenue collection by the IOUs.

3 This represent total IOU+CCA+REN EM&V

4 Program Funds represents the total program budget, excluding EM&V. Only the electric IOU PAs will complete the Demand Response funding columns.

5 only the IOU completes this line and should be consistent table 7.

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
(report budgets to the $--do not round)

Table 4 – Budget, Spent, Unspent, Carryover Details

New/Existing Program #	Discontinued Program #	Program Name	Target Exempt	Program Type	Business Sector	Portfolio Segment	Pre-2020 Unspent/Uncommitted EE Funds [6]	2021 Authorized Budget	2021 Forecasted Unspent/ Uncommitted Funds as of 7/31/2021	2021 Budget Spent as of 07/31/2021
	TCR-Res-001	Residential Direct Install	No	Core PA	Residential	Equity	$2,450,560	$5,914,078	$4,167,963	$ 790,159
TCR-Res-002		Multifamily	No	Core PA	Residential	Equity	$0			
TCR-Res-003		Single Family NMEC	No	Core PA	Residential	Equity	$0			
TCR-CS-001		Codes & Standards	Yes	Core PA	Codes & Standards	Codes & Standards	$1,179,273	$1,404,181	$425,474	$ 586,574
TCR-WET-001		Workforce Education & Training	Yes	Core PA	WE&T	Market Support	$852,999	$1,280,298	$323,450	$ 623,970
		PA PROGRAM TOTAL					**$ 4,482,831**	**$ 8,598,557**	**$ 4,916,888**	**$ 2,000,703**
		EM&V (PA & ED Portions) Total [5]								
		EM&V - PA								$ -
		EM&V - ED								$ -
		EM&V TOTAL								**$ -**
		PA Program and EM&V Total					**$ 4,482,831**	**$ 8,598,557**	**$ 4,916,888**	**$ 2,000,703**
		CEC AB 841 Program Budget--IOU PA only								
		Applicable Annual % of difference between funding limitation & 2020 EE ABAL budget 3								
		IOU 2020 and Beyond Uncommitted and Unspent Carryover Balance								
		CEC AB 841 Total								
PA Spending Budget Request (PA Program and EM&V + CEC AB 841)							**$ 4,482,831**	**$ 8,598,557**	**$ 4,916,888**	**$ 2,000,703**

		Financing Pilot Programs								
		Financing Pilot Programs Total					**$ -**	**$ -**	**$ -**	**$ -**

		ME&O & ESA								
		ME&O[1]								
		ESA2								

Notes: (PA to add as needed, e.g., relevant advice letter references, decision references and any other needed explanations.)
1. ME&O requested budget for 2021 per AL 3498-E/3835-G.
2. SDG&E Financing Administrative cost is per AL 3451-E-A/2818-G.
3. Per D.21-01-xxx, percentage allocation is 70% for 2022 and 60% for 2023. For SDG&E that base for calculation is $116-80.
4 Add footnote on Non-EE budgeted overheads.

[5] For all PAs, EM&V costs only includes IOU's Total EM&V budget (PA + ED). For the IOU EM&V budget it does not include REN or CCAs EM&V budget.
[6] PAs have the option of inputting by program or by total

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
(report budgets to the $--do not round)

Table 4 – Budget, Spent, Unspent, Carryover Details

			2022									
New/Existing Program #	Discontinued Program #	Program Name	Administrative	Marketing/ Outreach	Direct Implementation Non-Incentive	Incentive/ Rebate	2022 PA Spending Budget Request	2022 PA 2020 Uncommitted and Unspent Carryover Balance	2022 PA Revenue Requirement Request	First Year Net KWH	First Year Net KW	First Year Net Therms (MM)
	TCR-Res-001	Residential Direct Install	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-	-	-
TCR-Res-002		Multifamily	$ 123,659.5000	$ 61,660.5000	$ 1,410,790.5000	$ 1,700,000.0000	$ 3,296,111	$ -	$ 3,296,110.5000	1,608,480.89	57.48	0.07
TCR-Res-003		Single Family NMEC	$ 123,659.5000	$ 61,660.5000	$ 1,021,790.5000	$ 1,129,063.0000	$ 2,336,174	$ -	$ 2,336,173.5000	471,750.00	217.01	0.01
TCR-CS-001		Codes & Standards	$ 288,539.0000	$ 143,875.0000	$ 1,374,631.0000	$ -	$ 1,807,045	$ -	$ 1,807,045.000	-	-	-
TCR-WET-001		Workforce Education & Training	$ 288,539.0000	$ 143,875.0000	$ 1,415,632.0000	$ -	$ 1,848,046	$ -	$ 1,848,046.000	-	-	-
		PA PROGRAM TOTAL	**$ 824,397**	**$ 411,071**	**$ 5,222,844**	**$ 2,829,063**	**$ 9,287,375**	**$ 3,507,440**	**$ 9,287,375.000**	**2,080,230.89**	**274.49**	**0.09**
		EM&V (PA & ED Portions) Total [5]										
		EM&V - PA					$ 106,418	$ 77,651	$ 28,767			
		EM&V - ED					$ 280,556	$ -	$ 280,556			
		EM&V TOTAL					**$ 386,974**	**$ 77,651**	**$ 309,323**			
		PA Program and EM&V Total	**$ 824,397**	**$ 411,071**	**$ 5,222,844**	**$ 2,829,063**	**$ 9,674,348.958**	**$ 3,585,091**	**$ 9,596,698**	**2,080,230.89**	**274.49**	**0.09**
		CEC AB 841 Program Budget--IOU PA only										
		Applicable Annual % of difference between funding limitation & 2020 EE ABAL budget 3					$ -		$ -			
		IOU 2020 and Beyond Uncommitted and Unspent Carryover Balance					$ -	$ -	$ -			
		CEC AB 841 Total					**$ -**	**$ -**	**$ -**			
		PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	**$ 824,397**	**$ 411,071**	**$ 5,222,844**	**$ 2,829,063**	**$ 9,674,349**	**$ 3,585,091**	**$ 9,596,698**	**2,080,230.89**	**274.49**	**0.09**
		Financing Pilot Programs										
							$ -		$ -			
							$ -		$ -			
							$ -		$ -			
							$ -		$ -			
							$ -		$ -			
							$ -		$ -			
		Financing Pilot Programs Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**-**	**-**	**-**
		ME&O & ESA										
		ME&O[1]					$ -		$ -			
		ESA2					$ -		$ -			
							$ -		$ -			

Notes: (PA to add as needed, e.g., relevant advice letter references, decision references
1. ME&O requested budget for 2021 per AL 3498-E/3835-G.
2. SDG&E Financing Administrative cost is per AL 3451-E-A/2818-G.
3. Per D.21-01-xxx, percentage allocation is 70% for 2022 and 60% for 2023. For SDG8
4 Add footnote on Non-EE budgeted overheads.

[5] For all PAs, EM&V costs only includes IOU's Total EM&V budget (PA + ED). For the IO
[6] PAs have the option of inputting by program or by total

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
(report budgets to the $--do not round)

Table 4 – Budget, Spent, Unspent, Carryover Details

New/Existing Program #	Discontinued Program #	Program Name	First Year Net Elec CO2 (ton)	First Year Net Gas CO2 (ton)	Lifecycle Net KWH	Lifecycle Net Therms (MM)	Lifecycle Net Elec CO2 (Ton)	Lifecycle Net Gas CO2 (Ton)	Administrative	Marketing/ Outreach	Direct Implementation Non-Incentive	Incentive/Rebate	2023 PA Spending Budget Request
	TCR-Res-001	Residential Direct Install	-	-	-	-	-	-	$ -	$ -	$ -	$ -	$ -
TCR-Res-002		Multifamily	343.23	600.54	24,127,213.35	1.10	7,523.70	9,008.04	$ 134,965	$ 63,667	$ 1,431,406	$ 1,800,000	$ 3,430,037
TCR-Res-003		Single Family NMEC	100.67	78.55	5,802,525.00	0.18	3,745.67	1,043.81	$ 134,965	$ 63,667	$ 1,455,406	$ 3,295,937	$ 4,949,974
TCR-CS-001		Codes & Standards	-	-	-	-	-	-	$ 314,917	$ 148,556	$ 1,420,548	$ -	$ 1,884,021
TCR-WET-001		Workforce Education & Training	-	-	-	-	-	-	$ 314,917	$ 148,556	$ 1,446,548	$ -	$ 1,910,021
		PA PROGRAM TOTAL	**443.90**	**679.09**	**29,929,738.35**	**1.28**	**11,269.37**	**10,051.85**	**$ 899,763**	**$ 424,445**	**$ 5,753,907**	**$ 5,095,937**	**$ 12,174,052**
		EM&V (PA & ED Portions) Total [5]											
		EM&V - PA											$ 139,494
		EM&V - ED											$ 367,758
		EM&V TOTAL											**$ 507,252**
		PA Program and EM&V Total	**443.90**	**679.09**	**29,929,738.35**	**1.28**	**11,269.37**	**10,051.85**	**$ 899,763**	**$ 424,445**	**$ 5,753,907**	**$ 5,095,937**	**$ 12,681,304**
		CEC AB 841 Program Budget--IOU PA only											
		Applicable Annual % of difference between funding limitation & 2020 EE ABAL budget 3											$ -
		IOU 2020 and Beyond Uncommitted and Unspent Carryover Balance											$ -
		CEC AB 841 Total											**$ -**
PA Spending Budget Request (PA Program and EM&V + CEC AB 841)			**443.90**	**679.09**	**29,929,738.35**	**1.28**	**11,269.37**	**10,051.85**	**$ 899,763**	**$ 424,445**	**$ 5,753,907**	**$ 5,095,937**	**$ 12,681,304**

		Financing Pilot Programs											
													$ -
													$ -
													$ -
													$ -
													$ -
													$ -
													$ -
		Financing Pilot Programs Total	**-**	**-**	**-**	**-**	**-**	**-**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

		ME&O & ESA											
		ME&O[1]											$ -
		ESA2											$ -
													$ -

Notes: (PA to add as needed, e.g., relevant advice letter references, decision references
1. ME&O requested budget for 2021 per AL 3498-E/3835-G.
2. SDG&E Financing Administrative cost is per AL 3451-E-A/2818-G.
3. Per D.21-01-xxx, percentage allocation is 70% for 2022 and 60% for 2023. For SDG8
4 Add footnote on Non-EE budgeted overheads.
[5] For all PAs, EM&V costs only includes IOU's Total EM&V budget (PA + ED). For the IO
[6] PAs have the option of inputting by program or by total

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
(report budgets to the $--do not round)

Table 4 – Budget, Spent, Unspent, Carryover Details

			2023										
New/Existing Program #	Discontinued Program #	Program Name	2023 PA 2021 *Projected* Uncommitted and Unspent Carryover Balance	2023 PA Revenue Requirement Request	First Year Net KWH	First Year Net KW	First Year Net Therms (MM)	First Year Net Elec CO2 (ton)	First Year Net Gas CO2 (ton)	Lifecycle Net KWH	Lifecycle Net Therms (MM)	Lifecycle Net Elec CO2 (Ton)	Lifecycle Net Gas CO2 (Ton)
	TCR-Res-001	Residential Direct Install	$ -	$ -	-	-	-	-	-	-	-	-	-
TCR-Res-002		Multifamily	$ -	$ 3,430,037	1,703,097.41	60.86	0.08	369.55	635.86	25,546,461.20	1.17	8,096.69	9,537.93
TCR-Res-003		Single Family NMEC	$ -	$ 4,949,974	1,414,825.00	650.82	0.04	319.71	235.59	17,402,347.50	0.54	11,517.55	3,130.49
TCR-CS-001		Codes & Standards	$ -	$ 1,884,021	-	-	-	-	-	-	-	-	-
TCR-WET-001		Workforce Education & Training	$ -	$ 1,910,021	-	-	-	-	-	-	-	-	-
		PA PROGRAM TOTAL	**$ 4,916,888**	**$ 12,174,052**	**3,117,922.41**	**711.68**	**0.12**	**689.26**	**871.45**	**42,948,808.70**	**1.70**	**19,614.24**	**12,668.42**
		EM&V (PA & ED Portions) Total [5]											
		EM&V - PA	$ -	$ 139,494									
		EM&V - ED	$ -	$ 367,758									
		EM&V TOTAL	**$ -**	**$ 507,252**									
		PA Program and EM&V Total	**$ 4,916,888**	**$ 12,681,304**	**3,117,922.41**	**711.68**	**0.12**	**689.26**	**871.45**	**42,948,808.70**	**1.70**	**19,614.24**	**12,668.42**
		CEC AB 841 Program Budget--IOU PA only											
		Applicable Annual % of difference between funding limitation & 2020 EE ABAL budget 3	$ -	$ -									
		IOU 2020 and Beyond Uncommitted and Unspent Carryover Balance	$ -	$ -									
		CEC AB 841 Total	**$ -**	**$ -**									
		PA Spending Budget Request (PA Program and EM&V + CEC AB 841)	**$ 4,916,888**	**$ 12,681,304**	**3,117,922.41**	**711.68**	**0.12**	**689.26**	**871.45**	**42,948,808.70**	**1.70**	**19,614.24**	**12,668.42**

		Financing Pilot Programs											
				$ -									
				$ -									
				$ -									
				$ -									
				$ -									
				$ -									
				$ -									
		Financing Pilot Programs Total	**$ -**	**$ -**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

		ME&O & ESA											
		ME&O[1]		$ -									
		ESA2		$ -									
				$ -									

Notes: (PA to add as needed, e.g., relevant advice letter references, decision references
1. ME&O requested budget for 2021 per AL 3498-E/3835-G.
2. SDG&E Financing Administrative cost is per AL 3451-E-A/2818-G.
3. Per D.21-01-xxx, percentage allocation is 70% for 2022 and 60% for 2023. For SDG8
4 Add footnote on Non-EE budgeted overheads.
[5] For all PAs, EM&V costs only includes IOU's Total EM&V budget (PA + ED). For the IO
[6] PAs have the option of inputting by program or by total

PA Name: TriCounty Regional Energy Network
Budget Year: 2022-2023
Table 4.1 – 2022-2023 Program Changes

(report budgets to the $--do not round, add rows as needed)

Programs to be closed with the disposition of 2022-2023 BBAL

Programs with enhanced budgets (>40% budget increase)

PA Justification	Third Party Implementer or Core	Statewide or Local	Programs to be Closed with the Disposition of 2022-2023 ABAL	% change	2020 Claimed TRC	2021 (Q2) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	Year Program Started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2022-2023 ABAL	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts' ramp up
The Residential DI program was 3C-REN's first resource program. It launch in March 2020, at the start of the pandemic and faced barriers from the start. Envisioned as a direct install to co-pay program, the large majority of projects in 2020 and 2021 were DI only. The DI measures forecast when the program was first proposed in 2017 Business Plan have mostly been retired from the DEER list with those remaining scheduled to be retired by 2023, leaving only shower heads and faucet aerators as low cost energy efficient measures remaining on the list to be installed. Additionally, because of the focus on HTR and DAC communities, which were impacted most by the COVID pandemic, the potential for DI-to-copay opportunities have greatly diminished since customers do not have the disposable income to invest in energy efficiency beyond what is being provided at no cost.	Core	Local	TCR-Res-001	100.00%	0.13	0.25	0.00	0.00	$ 5,914,078	$ -	$ -	2020	n/a	n/a

Programs to be closed upon completion of commitments

PA Justification	Third Party Implementer or Core	Statewide or Local	Programs to be Closed with the Disposition of 2022-2023 ABAL	% change	2020 Claimed TRC	2021 (Q2) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	Year Program Started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2022-2023 ABAL planning and new 3P contracting	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts' ramp up

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

PA Justification	Third party Implementer or Core	Statewide	Programs with reduced budgets (>40% budget decrease)	% change	2020 Claimed TRC	2021 (Q2) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	Year program started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2022-2023 ABAL planning and new 3P contracting	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts ramp up , or mark "NEW 3P" program if program is result of 3P solicitation process per D1801004.

Programs with enhanced budgets (>40% budget increase)

PA Justification	Third party Implementer or Core	Statewide	Programs with enhanced budgets (>40% budget increase)	% change	2020 Claimed TRC	2021 (Q2) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	Year program started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2022-2023 ABAL	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts ramp up , or mark "NEW 3P" program if program is result of 3P solicitation process per D1801004.

Programs that are new in 2022 or 2023

PA Justification	Third party Implementer or Core	Statewide	Programs that are new in 2022 or 2023	[redacted]	2022 Filed TRC	2023 Filed TRC	2021 Budget	2022 Budget	2023 Budget	MM/YY program to start	MM/YY Program is due to sunset; and flag as "NEW 3P" program if program is result	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2022-2023 ABAL planning and timing for new 3P contracts ramp up , or mark "NEW 3P" program if program is result of 3P solicitation process per D1801004
In 2021 3C-REN conducted research and surveys to explore possible approaches to multifamily program implementation. Once the research was completed, 3C-REN solicited proposals for implementation of two separate programs, one to serve multifamily and the other to serve single family customers. The research and development, solicitations, program design and program development where funded from the original TCR-Res-003 program which is being proposed to be closed. The new proposed multifamily program will include incentives to be paid to property owners/managers of multifamily buildings properties with five or more units. The program includes site assessments, technical assistance, and a rebate structure that is based on the number of units in the complex. To qualify for the rebates, there are minimum GHG savings per apartment requirements that are calculated based on energy upgrade plans. The incentive structure also includes enhanced incentives for underserved properties and adders for higher performance measures, such as heat pumps.	Core	No	TCR-Res-002	[redacted]	0.61	0.61	$ -	$ 2,868,680	$ 3,203,325	10/12/2021	n/a	[redacted]
In 2021 3C-REN conducted research and surveys to explore possible approaches to single family tasking into account the lessons learned from TCR-Res-001 program implementation. Once the research was completed, 3C-REN solicited proposals for implementation to serve single family customers. The research and development, solicitations, program design and program development where funded from the original TCR-Res-001 program which is being proposed to be closed. The new single family program will deliver measurable energy savings targeted towards Hard to Reach (HTR) single family households in the 3C-REN service territory. Savings will be claimed using a population Normalized Metered Energy Consumption (NMEC) Measurement and Verification (M&V) platform. The program implementer, will deliver energy upgrades utilizing a network of energy efficiency installers (aggregators) who will be paid incentives based on the metered savings achieved with their installations. Performance incentives will push aggregators to maximize both customer savings and grid benefits.	Core	No	TCR-Res-003		0.35	0.53	$ -	$ 828,608	$ 2,646,474	1/1/2021	n/a	

Pa Name:	Tri-County Regional Energy Network
Budget Year:	2022-2023

Table 5 - Committed Energy Efficiency Program Funding - Funds Not Yet Spent as of 7/31/2021

Accrued funds not yet spent Category	Electric Procurement Funds	Natural Gas Public Purpose Funds	Total
2017 to date EM&V Funds	$0	$0	$0
2017 to date Program Funds - Utility	$0	$0	$0
2017 to date Program Funds - REN	$0	$0	$0
2017 to date Program Funds - CCA	$0	$0	$0
2018 to date EM&V Funds	$0	$0	$0
2018 to date Program Funds - Utility	$0	$0	$0
2018 to date Program Funds - REN	$0	$0	$0
2018 to date Program Funds - CCA	$0	$0	$0
2019 to date EM&V Funds	$0	$0	$0
2019 to date Program Funds - Utility	$0	$0	$0
2019 to date Program Funds - REN	$0	$0	$0
2019 to date Program Funds - CCA	$0	$0	$0
2020 to date EM&V Funds	$0	$0	$0
2020 to date Program Funds - Utility	$0	$0	$0
2020 to date Program Funds - REN	$0	$0	$0
2020 to date Program Funds - CCA	$0	$0	$0
2021 to date EM&V Funds	$78,648	$19,662	$98,310
2021 to date Program Funds - Utility	$0	$0	$0
2021 to date Program Funds - REN	$420,000	$105,000	$525,000
2021 to date Program Funds - CCA	$0	$0	$0

Pa Name: Tri-County Regional Energy Network
Budget Year 2022-2023

Table 6 - Statewide Programs

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

Statewide Program*	Lead IOU	2020 Program Contract Budget (Total for all IOUs)**	2021 Program Contract Budget (Total for all IOUs)**	2022 Program Contract Budget (Total for all IOUs)**	2023 Program Contract Budget (Total for all IOUs)**	Expected or Actual Contract Execution Launch Date (MM/YYYY)***	Annual Program Contract Budget After Launch**	Col D Percent Electric	Combined (Electric & Gas) Proportional Contribution to Contract Cost per Load-Share (Either as reflected in co-funding agreement, or expected in co-funding agreement. Funding share may be within +/-20% of Target per formula in row 1 above) Col E PG&E	Col F SDG&E	Col G SCE	Col H SCG	2020 Program Contract Expenditures by IOU** PG&E	SDG&E	SCE	SCG	2020 IOU Administrative Expenditures^ PG&E	SDG&E	SCE	SCG	2021 Total Program Contract Expenditures, as Reported by Lead IOU** (YTD as of July 31, 2021) 2021 Total Contract Expenditures	2021 IOU Administrative Expenditures (YTD as of July 31, 2021)^ PG&E	SDG&E	SCE	SCG	2022 IOU Administrative Budgets^ PG&E	SDG&E	SCE	SCG	2023 IOU Administrative Budgets^ PG&E	SDG&E	SCE	SCG
Workforce education, and training: Career and workforce readiness	PG&E																																
Res New Construction																																	
NonRes New Construction																																	
Codes and Standards Advocacy																																	
Institutional Partnerships, DGS & Dept of Corrections																																	
WE&T K-12 Connections																																	
Water/wastewater pumping	SCE																																
Lighting (Upstream)																																	
ETP, electric																																	
Institutional Partnerships, UC/CSU/CCC																																	
ETP, gas	SCG																																
Food Service POS																																	
Midstream Comm Water Heating																																	
Res HVAC QI/QM	SDG&E																																
Plug Load and Appliance																																	
Upstream HVAC (Comm + Res)																																	
Total		$ -	$ -	$ -	$ -		$ -						$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

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

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

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

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

Pa Name Tri-County Regional Energy Network

Budget Y 2022-2023

Table 7 - PA Program Year Budget Savings

Line	Sector	Program Year (PY) 2022 Budget	FORECAST ENERGY SAVINGS (Net) PA forecast kWh	PA forecast kW	PA forecast therms (MM)	PA Forecast Elec CO2	PA Forecast GasCO2	Program Year (PY) 2023 Budget	FORECAST ENERGY SAVINGS (Net) forecast kWh	forecast kW	forecast therms	Forecast Elec CO2	Forecast GasCO2
	Resource Acquisition Program Segment												
	Residential	$0	-	-	-	-	-	$0	-	-	-	-	-
	Commercial	$0	-	-	-	-	-	$0	-	-	-	-	-
	Industrial	$0	-	-	-	-	-	$0	-	-	-	-	-
	Agricultural	$0	-	-	-	-	-	$0	-	-	-	-	-
	Emerging Tech	$0	-	-	-	-	-	$0	-	-	-	-	-
	Public	$0	-	-	-	-	-	$0	-	-	-	-	-
1	WE&T	$0	-	-	-	-	-	$0	-	-	-	-	-
2	Finance	$0	-	-	-	-	-	$0	-	-	-	-	-
3	OBF Loan Pool	$0	-	-	-	-	-	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$0**	-	-	-	-	-	**$0**	-	-	-	-	-
	Resource Acquisition Forecasted Total System Benefit (TSB)	$0						$0					
	Resource Acquisition Forecasted Total Resource Cost (TRC)	$0						$0					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$0						$0					
	Market Support Program Segment												
	Residential	$0	-	-	-	-	-	$0	-	-	-	-	-
	Commercial	$0	-	-	-	-	-	$0	-	-	-	-	-
	Industrial	$0	-	-	-	-	-	$0	-	-	-	-	-
	Agricultural	$0	-	-	-	-	-	$0	-	-	-	-	-
	Emerging Tech	$0	-	-	-	-	-	$0	-	-	-	-	-
	Public	$0	-	-	-	-	-	$0	-	-	-	-	-
1	WE&T	$1,848,046	-	-	-	-	-	$1,910,021	-	-	-	-	-
2	Finance	$0	-	-	-	-	-	$0	-	-	-	-	-
3	OBF Loan Pool	$0	-	-	-	-	-	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$1,848,046**	-	-	-	-	-	**$1,910,021**	-	-	-	-	-
	Resource Acquisition Forecasted Total System Benefit (TSB)	$0						$0					
	Portfolio Forecasted Total Resource Cost (TRC)	$1,848,046						$1,910,021					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$1,848,046						$1,910,021					
	Equity Program Segment												
	Residential	$5,632,284	-	-	-	-	-	$8,380,010	-	-	-	-	-
	Commercial	$0	-	-	-	-	-	$0	-	-	-	-	-
	Industrial	$0	-	-	-	-	-	$0	-	-	-	-	-
	Agricultural	$0	-	-	-	-	-	$0	-	-	-	-	-
	Emerging Tech	$0	-	-	-	-	-	$0	-	-	-	-	-
	Public	$0	-	-	-	-	-	$0	-	-	-	-	-
1	WE&T	$0	-	-	-	-	-	$0	-	-	-	-	-
2	Finance	$0	-	-	-	-	-	$0	-	-	-	-	-
3	OBF Loan Pool	$0	-	-	-	-	-	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$5,632,284**	-	-	-	-	-	**$8,380,010**	-	-	-	-	-
	Resource Acquisition Forecasted Total System Benefit (TSB)	$3,697,288						$5,849,799					
	Portfolio Forecasted Total Resource Cost (TRC)	$7,321,280						$10,181,628					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$5,726,988						$8,493,554					
	Portfolio												
	Residential	$5,632,284	2,080,231	274	0	444	679	$8,380,010	########	711.68	0.12	689.26	871.45
	Commercial	$0	-	-	-	-	-	$0	-	-	-	-	-
	Industrial	$0	-	-	-	-	-	$0	-	-	-	-	-
	Agricultural	$0	-	-	-	-	-	$0	-	-	-	-	-
	Emerging Tech	$0	-	-	-	-	-	$0	-	-	-	-	-
	Public	$0	-	-	-	-	-	$0	-	-	-	-	-
1	WE&T	$1,848,046	-	-	-	-	-	$1,910,021	-	-	-	-	-
2	Finance	$0	-	-	-	-	-	$0	-	-	-	-	-
3	OBF Loan Pool	$0	-	-	-	-	-	$0	-	-	-	-	-
4	**PA Subtotal (does not include ESA budget and savings)**	**$7,480,330**	**2,080,231**	**274**	**0.09**	**444**	**679**	**$10,290,031**	#######	**712**	**0.12**	**689**	**871**
5	**CPUC Savings Goal (w/o C&S)**		2,080,231	274	0.09	444	679		#######	712	0.12	689	871
6	**Forecast savings as % of CPUC Savings Goal (w/o C&S)**	NA	100.0%	100.0%	100.0%	100.0%	100.0%	NA	100.0%	100.0%	100.0%	100.0%	100.0%
7	**Total EM&V** [7]	$386,974						$507,252					
7a	PA EM&V	$106,418						$139,494					
7b	ED EM&V	$280,556						$367,758					
	Portfolio Forecasted Total System Benefit (TSB)	$3,697,288						$5,849,799					
	(w/o C&S and w/ EM&V)	$9,556,300						$12,598,901					
	Portfolio Forecasted Portfolio Administrator Cost (PAC)	$9,769,053						$12,794,849					
	Portfolio Forecasted Ratepayer Impact Measure (RIM)	$9,769,053						$12,794,849					
8	**Codes and Standards**	$1,807,045						$1,884,021					
9	**PA Spending Budget Request**[1]	$9,674,349						$12,681,304					

10	**(LESS) PA Uncommitted and Unspent Carryover Balance[2]**	$8,139,497		$4,916,888
11	**CEC AB 841 Program Funding [3]**			
12	Applicable percentage (70%) of difference between funding limitation and 2020 budget	$0		$0
13	PA 2020 and Beyond Uncommitted and Unspent Carryover Balance [4]	$0		$0
14	**CEC AB 841 Total Program Funding**	$0		$0
15	**PA Revenue Requirement Request (Cost Recovery) [5]**	$1,534,852		$7,764,417
	% of Equity and Market Support Program Budgets to PA Spending Budget Request (not	77%		81%
16	**PA Authorized Budget Cap (D.18-05-041)**	$6,929,393		$7,206,568
	For CCA & RENS in IOU Service Territory Only--(IOU PA Only to complete)			
21	**REN Budget Recovery Request**	$0		$0
21a	BayREN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	-		-
21b	SoCal REN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	-		-
21c	3CREN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	-		-
21d	RCEA PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	-		-
22	**CCA Budget Recovery Request**	$0		$0
22a	MCE PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	-		-
22b	Lancaster PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)	-		-
	Redwood Coast Energy Authority (excl. REN Uncommitted/Unspent Carryover)	-		-
	San Jose Clean Energy (excl. REN Uncommitted/Unspent Carryover)	-		-
17	**Total PA (IOU+CCAs+RENs) Recovery Budget[6]**	$1,534,852		$7,764,417

[1] **This is 3C-REN's requested EE Portfolio budget.**

[2] **The balance of unspent uncommitted must reflect the total unspent uncommitted from pre-2020 EE authorized budgets Jan 1 2018 through Dec 31 of current year (PY-1). For PY 2022, this includes unspent/uncommitted for PY 2019-2020. Fro PY 2023, this includes projected unspent/uncommitted for PY 2021. Because each ABAL is filed in Q3, this unspent uncommitted amount will be an estimate for the year in which the ABAL is filed. AB 841 does not apply to RENs; therefore these amounts include 2020 and Beyond Uncommitted and Unspent Carryover.**

[3] **See D.21-01-004 Tables 2 (2022) and 3 (2022)**

[4] **Because each ABAL is filed in Q3, this unspent uncommitted amount will be an estimate for the year in which the ABAL is filed.**

[5] **The amount of funds to be collected (cost recovery) for the PA EE Program Year = Line 9 - Line 10 + Line 12**

[6] **Total amount to be requested in IOU's PPP advice letter for their programs, RENs and CCAs in their service territory, Line 15+ Line 21 + Line 22**

[7] **For 3C-REN, the total EM&V includes EM&V-PA Budget and EM&V-ED with the understanding that EM&V-ED will remain with the IOUs.**

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
Table 8 - Caps & Targets

		2022 Energy Efficiency Cap And Target Expenditure Projections						2023 Energy Efficiency Cap And Target Expenditure Projections					
		Expenditures			Cap & Target Performance			Expenditures			Cap & Target Performance		
Line	Budget Category	Non-Third Party Qualifying Costs (including PA costs and old-definition 3P/GP contracts that don't meet the new definition)	Third Party Qualifying Costs [2] (Local SW, CEC & AB 841)	Total Portfolio	Percent of Budget [8]	Cap %	Target %	Non-Third Party Qualifying Costs (including PA costs and old-definition 3P/GP contracts that don't meet the new definition)	Third Party Qualifying Costs [2] (including SW)	Total Portfolio	Percent of Budget [8]	Cap %	Target %
1	**Administrative Costs**												
2	PA [1]	$ 247,299		$ 247,299	2.6%	10.0%		$ 269,909		$ 269,909	2.8%	10.0%	
3	Non-PA Third Party & Partnership [2]	$ 20	$ -	$ 20	0.0%		10.0%	$ 20	$ -	$ 20	0.0%		10.0%
4	PA & Non-PA Target Exempt Programs [3]	$ 577,078	$ -	$ 577,078				$ 629,834	$ -	$ 629,834			
5	**Marketing and Outreach Costs [4]**												
6	Marketing & Outreach	$ 411,071	$ -	$ 411,071	4.2%		6.0%	$ 424,445	$ -	$ 424,445	4.4%		6.0%
7	Statewide Marketing & Outreach [5]	$ -		$ -				$ -		$ -			
8	**Direct Implementation Costs**												
9	Direct Implementation (Incentives and Rebates)	$ 2,829,063	$ -	$ 2,829,063				$ -	$ 5,095,937	$ 5,095,937			
10	Direct Implementation (Non Incentives and Non Rebates)	$ 2,432,581	$ -	$ 2,432,581	25.1%		20.0%	$ 2,886,811	$ -	$ 2,886,811	29.8%		20.0%
11	Direct Implementation Target Exempt Programs (Non Incentives and Non Rebates) [3]	**$ 2,790,263**	$ -	$ 2,790,263				**$ 2,867,096**	$ -	$ 2,867,096			
12	**EM&V Costs (PA and Energy Division) [6,7]**	**$ 386,974**		$ 386,974	4.2%	4.0%		**$ 507,252**		$ 507,252	4.1%	4.0%	
12a	EM&V - PA	$ 106,418		$ 106,418				$ 139,494		$ 139,494			
12b	EM&V - ED	$ 280,556		$ 280,556				$ 367,758		$ 367,758			
13	**Total Portfolio Budget (includes PA Program and EM&V Budget + SW ME&O) [8]**	**$ 9,674,349**	**$ -**	**$ 9,674,349**				**$ 7,585,367**	**$ 5,095,937**	**$ 12,681,304**			
14	**CEC AB 841 (per CPUC Code Section 1613 counts as a Third Party Program as defined in D.18-08-019, OP 10)**		**$ -**	**$ -**					**$ -**	**$ -**			
15	**PA Spending Budget Request (PA Program and EM&V + CEC AB 841) [9]**			**$ 9,674,349**						**$ 12,681,304**			
16	**Total Third-Party Implementer Contracts + CEC AB 841 (as defined per D.16-08-019, OP 10 and D.21-01-xxx OP) [10, 11]**		**$ -**		0.0%		60.0%		$ 5,095,937		40.2%		60.0%

Notes:
1. 10% cap requirement based on D. 09-09-047 is set for IOU only.
2. New Third party program definition per D.16-08-019, OP 10. For Row 3 of this table, the "Third Party & Partnership" administrative costs under the "Non-Third Party Qualifying Costs" column are costs for programs that met the old Third Party definition prior to the transition to the new third party definition.
3. Target Exempt Programs are Non-Resource Programs which include: Emerging Technologies, Workforce Education & Training, Strategic Energy Resources (SER) program, 3P Placeholder for Public LGPs, and Codes & Standards programs (excluding Building Codes Advocacy, Appliance Standards 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. Statewide ME&O budgets for October 2019 through 2021 were requested in Advice Letter 4098-G/5544-E and supplements, and are pending approval. The amount in Line 7 represents the portion allocated to EE.
6. For IOUs, EM&V costs only includes IOU's Total EM&V budget (PA + ED) and does not include REN or CCAs EM&V budget. For RENs & CCAs, include EM&V-PA Budget and EM&V-ED = $0 .
7. The EM&V percentage is based on PA's total portfolio budget of $X, which excludes SWME&O, RENs, CCAs and CEC AB 841. This is the Total in line 13, minus SWME&O in line 7.
8. As directed in the Energy Efficiency Policy Manual Version 5 July 2013, page 92, this total includes SW ME&O and excludes REN and CCA budgets and is the denominator used to calculate the IOU PA Admin, Marketing, and Direct Implementation Non-Incentives percentages.
9. IOU PA's 2021 Proposed Budget of $X excludes SWME&O budget of $Y and includes CEC AB 841 budgets of $Z.
10. IOU PA's percentage for Third-Party Implementer Contracts uses $X as its denominator, which is IOU PA Subtotal including EM&V, but excluding SWME&O, REN, and CCA. This is the Total in line 15 minus, minus SWME&O in line 7.
11. IOU's Third-Party Implementer Contracts (as defined per D.16-08-019, OP 10) includes third-party contract and incentive budgets and statewide qualifying contract and incentive budgets.

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
PORTFOLIO SUMMARY

	2020 EE Portfolio Expenditures				2022 EE Portfolio Budget				2023 EE Portfolio Budget				2020 EE Portfolio Savings			2022 EE Portfolio Forecasted Savings			2023 EE Portfolio Forecasted Savings		
Sector	Labor	Non-Labor (excl. Incentives)	Incentives	Total	Labor	Non-Labor (excl. Incentives)	Incentives	Total	Labor	Non-Labor (excl. Incentives)	Incentives	Total	KWH	KW	MMTHERMS	KWH	KW	MTHERMS	KWH	KW	MTHERMS
Residential	$ 414,304.58	$ 574,748.32	$ 2,000.00	**$ 991,052.90**	$ 1,013,991.00	$ 1,789,231.00	$ 2,829,063.00	**$ 5,632,285.00**	$ 1,064,669.00	$ 2,219,404.00	$ 5,095,937.27	**$ 8,380,010.27**	19,556	-	0.002	2,080,231	274	0	3,117,922	712	0
Commercial				**$ -**			$ -	**$ -**			$ -	**$ -**	-	-	-	-	-	-	-	-	-
Industrial				**$ -**			$ -	**$ -**			$ -	**$ -**	-	-	-	-	-	-	-	-	-
Agricultural				**$ -**			$ -	**$ -**			$ -	**$ -**	-	-	-	-	-	-	-	-	-
Public				**$ -**			$ -	**$ -**			$ -	**$ -**	-	-	-	-	-	-	-	-	-
Cross Cutting*	$ 945,053.57	$ 819,076.05		**$ 1,764,129.62**	$ 968,006.00	$ 2,687,085.00	$ -	**$ 3,655,091.00**	$ 1,084,805.00	$ 2,709,237.00	$ -	**$ 3,794,042.00**	-	-	-	-	-	-	-	-	-
Total Sector Budget	$ 1,359,358.15	$ 1,393,824.37	$ 2,000.00	**$ 2,755,182.52**	$ 1,981,997.00	$ 4,476,316.00	$ 2,829,063.00	**$ 9,287,376.00**	$ 2,149,474.00	$ 4,928,641.00	$ 5,095,937.27	**$ 12,174,052.27**	19,556	-	0.002	2,080,231	274	0	3,117,922	712	0
EM&V-PA			$ 104.50	**$ 104.50**	$ -	$ 106,417.84	$ -	**$ 106,417.84**	$ -	$ 139,494.35	$ -	**$ 139,494.35**									
EM&V-ED				**$ -**	$ -	$ 280,556.12	$ -	**$ 280,556.12**	$ -	$ 367,757.82	$ -	**$ 367,757.82**									
OBF - Loan Pool**				**$ -**			$ -	**$ -**			$ -	**$ -**									
CEC AB841				**$ -**	$ -	$ -	$ -	**$ -**	$ -	$ -	$ -	**$ -**									
PA Spending Budget Request (PA Program and EM	**$ 1,359,358.15**	**$ 1,393,824.37**	**$ 2,104.50**	**$ 2,755,287.02**	**$ 1,981,997.00**	**$ 4,863,289.96**	**$ 2,829,063.00**	**$ 9,674,349.96**	**$ 2,149,474.00**	**$ 5,435,893.17**	**$ 5,095,937.27**	**$ 12,681,304.44**	**19,556.00**	-	**0.002**	**2,080,231**	**274**	**0**	**3,117,922**	**712**	**0**

* Cross Cutting Sector includes Codes & Standards, Emerging Technologies, Workforce Education & Training, Finance.
** For SDG&E and SCG the loan pool is not part of the authorized EE portfolio budget and is collected and tracked through a separate balancing account.

A. → **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."¶

¶

- → 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. ¶

¶

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
PORTFOLIO STAFFING

Functional Group	2020 EE Portfolio FTE (2)	2022 EE Portfolio FTE (2)	2023 EE Portfolio FTE (2)
Policy, Strategy, and Regulatory Reporting Compliance	0.9	1.0	1.0
Program Management	3.1	3.0	3.0
Engineering Services			
Customer Application/Rebate/Incentive Processing			
Customer Project Inspections		1.0	1.0
Portfolio Analytics (1)	2.4	2.5	2.5
EM&V			
ME&O (Local)			
Account Management / Sales			
IT	1.7	1.0	1.5
Call Center			
Total	8.0	8.5	9.0

Notes:
(1) SDG&E does not have a Portfolio Analytics group. Each group performs their own analytics.
(2) FTE is equal to productive labor of 1788 hour per year.

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

- Functions conducted by each department/organization
- Management structure and org chart
- Staffing needs by department/organization, including current and forecast for 2018, as well as a description of what changes are expected in the near term (2019-2020) or why it's impossible to predict beyond 2018, if that's the PA's position.
- 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 (2019-2020) or why it's impossible to predict beyond 2018, if that's the PA's position.
- Anticipated drivers of in-house cost changes by department/organization
- Explanation of method for forecasting costs

B. Table showing PA EE headcount by department/organization

- TURN and ORA like this example, taken from testimony PG&E's 2017 GRC addressing its Energy Procurement department. We would be looking for 2016 or 2017 "recorded" positions, depending on what's most appropriate for the PA, or both, if that provides the most clarity. For forecast years, we'd want at least 2018.

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023

RESIDENTIAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023EE Portfolio Budget
Residential	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$ 94,359.150	$ 138,726.000	$ 145,662.000
		Program Management	$ 154,084.410	$ 320,216.000	$ 336,232.000
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics	$ 95,289.700	$ 229,174.000	$ 240,614.000
		ME&O (Local)		$ 232,294.000	$ 243,901.000
		Account Management / Sales			
		IT	$ 70,571.320	$ 93,581.000	$ 98,260.000
		Call Center			
	Labor Total		**$ 414,304.580**	**$ 1,013,991.000**	**$ 1,064,669.000**
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)			
		Local/Government Partnerships Contracts (3)			
		Other Contracts			
		Program Implementation	$ 237,107.070	$ 1,378,410.000	$ 1,804,571.000
		Policy, Strategy, and Regulatory Reporting Compliance	$ 215,639.000	$ 112,500.000	$ 112,500.000
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing		$ 175,000.000	$ 175,000.000
		Customer Project Inspections			
		Portfolio Analytics	$ 29,413.820		
		ME&O (Local)	$ 92,588.430	$ 123,321.000	$ 127,333.000
		Account Management / Sales			
		IT (4)			
		Call Center			
		Facilities			
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$ 2,000.000	$ 2,829,063.000	$ 5,095,937.270
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)			
	Non-Labor Total		**$ 576,748.320**	**$ 4,618,294.000**	**$ 7,315,341.270**
Residential Total			**$ 991,052.900**	**$ 5,632,285.000**	**$ 8,380,010.270**
	Other (collected through GRC) (2)	Labor Overheads			
			$ -	$ -	$ (0.00)

Notes:
(1) Labor costs are already loaded with (state loaders covered by EE)
(2) These costs are collected through GRC D.16-06-054
(3) LGP contracts that directly support the sector is included/not included in this item
(4) IT Costs are included in " Policy, Strategy, and Regulatory Reporting Compliance".

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

- → Expenses broken out into labor, non-labor O&M (with contract labor identified)¶
- → Identify any capital costs¶

B. → 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."¶
¶

- → 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.¶

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
COMMERCIAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Commercial	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance			
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics			
		ME&O (Local)			
		Account Management / Sales			
		IT			
		Call Center			
	Labor Total		$ -	$ -	$ -
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)			
		Local/Government Partnerships Contracts (3)			
		Other Contracts			
		Program Implementation			
		Policy, Strategy, and Regulatory Reporting Compliance			
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics			
		ME&O (Local)			
		Account Management / Sales			
		IT (4)			
		Call Center			
		Facilities			
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs			
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)			
	Non-Labor Total		$ -	$ -	$ -
Commercial Total (5)			$ -	$ -	$ -
	Other (collected through GRC) (2)	Labor Overheads			
			$ -	$ -	$ -

Notes:
(1) Labor costs are already loaded with (state loaders covered by EE)
(2) These costs are collected through GRC D.16-06-054
(3) LGP contracts that directly support the sector is included/not included in this item
(4) IT Costs are included in " Policy, Strategy, and Regulatory Reporting Compliance".
(5) Under the previous program categories the following programs were classified as Cross Cutting: 3P-IDEEA, Local-IDSM-ME&O-Local Marketing (EE), SW-IDSM-IDSM. These are included in Table 16 Cross Cutting. These three programs are now classified as Commercial with the elimination of Cross Cutting programs.

C. → **Table showing costs by functional area of management structure**¶
¶
- → Expenses broken out into labor, non-labor O&M (with contract labor identified)¶
- → Identify any capital costs¶

B. → **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."[c]¶

¶

- 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.¶

Pa Name:	Tri-County Regional Energy Network
Budget Year:	2022-2023

INDUSTRIAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Industrial	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance			
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics			
		ME&O (Local)			
		Account Management / Sales			
		IT			
		Call Center			
	Labor Total		$ -	$ -	$ -
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)			
		Local/Government Partnerships Contracts (3)			
		Other Contracts			
		Program Implementation			
		Policy, Strategy, and Regulatory Reporting Compliance			
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics			
		ME&O (Local)			
		Account Management / Sales			
		IT (4)			
		Call Center			
		Facilities			
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs			
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)			
	Non-Labor Total		$ -	$ -	$ -
Industrial Total (5)			$ -	$ -	$ -
	Other (collected through GRC) (2)	Labor Overheads			
			$ -	$ -	$ -

Notes:
(1) Labor costs are already loaded with (state loaders covered by EE)
(2) These costs are collected through GRC D.16-06-054
(3) LGP contracts that directly support the sector is included/not included in this item
(4) IT Costs are included in " Policy, Strategy, and Regulatory Reporting Compliance".

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

- → Expenses broken out into labor, non-labor O&M (with contract labor identified)
- → Identify any capital costs

B. → 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."

- → 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.

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023

AGRICULTURAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Agricultural	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance			
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics			
		ME&O (Local)			
		Account Management / Sales			
		IT			
		Call Center			
	Labor Total		$ -	$ -	$ -
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)			
		Local/Government Partnerships Contracts (3)			
		Other Contracts			
		Program Implementation			
		Policy, Strategy, and Regulatory Reporting Compliance			
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics			
		ME&O (Local)			
		Account Management / Sales			
		IT (4)			
		Call Center			
		Facilities			
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs			
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)			
	Non-Labor Total		$ -	$ -	$ -
Agricultural Total (5)			$ -	$ -	$ -
	Other (collected through GRC) (2)	Labor Overheads			
			$ -	$ -	$ -

Notes:
(1) Labor costs are already loaded with (state loaders covered by EE)
(2) These costs are collected through GRC D.16-06-054
(3) LGP contracts that directly support the sector is included/not included in this item
(4) IT Costs are included in " Policy, Strategy, and Regulatory Reporting Compliance".

C. → **Table showing costs by functional area of management structure**¶

¶

- → Expenses broken out into labor, non-labor O&M (with contract labor identified)¶
- → Identify any capital costs¶

B. → **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."[C]¶

¶

- → 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.¶

Pa Name:	Tri-County Regional Energy Network
Budget Year:	2022-2023

PUBLIC SECTOR BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Public Sector	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance			
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics			
		ME&O (Local)			
		Account Management / Sales			
		IT			
		Call Center			
	Labor Total		$ -	$ -	$ -
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)			
		Local/Government Partnerships Contracts (3)			
		Other Contracts			
		Program Implementation			
		Policy, Strategy, and Regulatory Reporting Compliance			
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics			
		ME&O (Local)			
		Account Management / Sales			
		IT (4)			
		Call Center			
		Facilities			
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs			
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)			
	Non-Labor Total		$ -	$ -	$ -
Public Sector Total (5)			$ -	$ -	$ -
	Other (collected through GRC) (2)	Labor Overheads			
			$ -	$ -	$ -

Notes:
(1) Labor costs are already loaded with (state loaders covered by EE)
(2) These costs are collected through GRC D.16-06-054
(3) LGP contracts that directly support the sector is included/not included in this item
(4) IT Costs are included in " Policy, Strategy, and Regulatory Reporting Compliance".

C. → **Table showing costs by functional area of management structure**¶

¶

- → Expenses broken out into labor, non-labor O&M (with contract labor identified)¶
- → Identify any capital costs¶

B. → **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."¶

¶

- → 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.¶

Pa Name: Tri-County Regional Energy Network
Budget Year: 2022-2023
CROSS -CUTTING BUDGET DETAIL

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Cross-Cutting	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$ 94,359.150	$ 138,726.000	$ 145,662.000
		Program Management	$ 382,660.510	$ 237,639.000	$ 347,777.000
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics	$ 298,054.010	$ 190,653.000	$ 200,179.000
		ME&O (Local)		$ 236,538.000	$ 241,074.000
		Account Management / Sales			
		IT	$ 169,979.900	$ 164,450.000	$ 150,113.000
		Call Center			
	Labor Total		**$ 945,053.570**	**$ 968,006.000**	**$ 1,084,805.000**
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)			
		Local/Government Partnerships Contracts (3)			
		Other Contracts			
		Program Implementation	$ 202,635.330	$ 596,283.000	$ 597,890.000
		Policy, Strategy, and Regulatory Reporting Compliance	$ 222,851.460	$ 222,740.000	$ 217,345.000
		Program Management	$ 219,041.070	$ 555,282.000	$ 571,890.000
		Engineering services			
		Customer Application/Rebate/Incentive Processing		$ 425,000.000	$ 425,000.000
		Customer Project Inspections			
		Portfolio Analytics	$ 28,321.520	$ 175,000.000	$ 175,000.000
		ME&O (Local)	$ 146,226.670	$ 287,780.000	$ 297,112.000
		Account Management / Sales			
		IT (4)		$ 425,000.000	$ 425,000.000
		Call Center			
		Facilities			
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs			
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)			
	Non-Labor Total		**$ 819,076.050**	**$ 2,687,085.000**	**$ 2,709,237.000**
Cross-Cutting Total (5)			**$ 1,764,129.620**	**$ 3,655,091.000**	**$ 3,794,042.000**
	Other (collected through GRC) (2)	Labor Overheads	$ -	$ -	$ -

			945,053.57	819,076.05	968,006.40	2,687,085.00	1,084,805.20	2,709,237.00
			$ -	$ -	$ (0.40)		$ (0.20)	

Notes:

(1) Labor costs are already loaded with (state loaders covered by EE)
(2) These costs are collected through GRC D.16-06-054
(3) LGP contracts that directly support the sector is included/not included in this item
(4) IT Costs are included in " Policy, Strategy, and Regulatory Reporting Compliance".
(5) Under the previous program categories the following programs were classified as Cross Cutting: 3P-IDEEA, Local-IDSM-ME&O-Local Marketing (EE), SW-IDSM-IDSM. These are included in Table 16 Cross Cutting. These three programs are now classified as Commercial with the elimination of Cross Cutting programs.

C. → **Table showing costs by functional area of management structure**¶

¶

- → Expenses broken out into labor, non-labor O&M (with contract labor identified)¶
- → Identify any capital costs¶

B. → **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."¶

¶

- → 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.¶

Pa Na Tri-County Regional Energy Network
Budg 2022-2023

Table 17: Metrics Compliance Filing

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

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	2018 Target	2019 Target	2020 Target	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions	Proxy Explanation
0	TCR	A03	PL1	G	MT CO2eq	NEW: Energy Savings	Metric	Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22	231	422	588	20			Per CEDARs	None	
1	TCR	A02	PL1	S1	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW gross	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	431	580	1,248	1,911	1			Per CEDARs	None	
2	TCR	A02	PL1	S1	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW net	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	389	522	1,123	1,720	0			Per CEDARs	None	
3	TCR	A02	PL1	S1	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh gross	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	679,163	910,152	1,877,468	2,767,178	20,535			Per CEDARs	None	
4	TCR	A02	PL1	S1	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh net	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	611,247	819,137	1,689,721	2,490,460	19,556			Per CEDARs	None	
5	TCR	A02	PL1	S1	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm gross	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54,732	73,672	158,529	242,923	2,521			Per CEDARs	None	
6	TCR	A02	PL1	S1	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm net	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	49,259	66,305	142,676	218,630	2,269			Per CEDARs	None	
7	TCR	A02	PL1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	PL1-S1: First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross	Lifecycle ex-ante kW gross	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,826	7,847	17,015	33,479	3			Per CEDARs	None	
8	TCR	A02	PL1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW net	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4,952	6,670	14,463	28,457	3			Per CEDARs	None	
9	TCR	A02	PL1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh gross	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8,609,169	11,544,408	23,965,392	35,535,316	60,123			Per CEDARs	None	
10	TCR	A02	PL1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh net	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7,748,252	10,389,967	21,568,852	31,981,784	58,057			Per CEDARs	None	
11	TCR	A02	PL1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm gross	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	740,527	997,592	2,164,168	3,339,803	13,939			Per CEDARs	None	
12	TCR	A02	PL1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm net	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	666,474	897,832	1,947,751	3,005,823	12,545			Per CEDARs	None	
13	TCR	A02	PL2	S3	First year annual kW gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kW gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31	41	88	133	-			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
14	TCR	A02	PL2	S3	First year annual kW net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kW net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28	36	79	120	-			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
15	TCR	A02	PL2	S3	First year annual kWh gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kWh gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53,753	71,049	148,705	220,063	8			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
16	TCR	A02	PL2	S3	First year annual kWh net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kWh net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48,378	63,944	133,834	198,057	7			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
17	TCR	A02	PL2	S3	First year annual Therm gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual Therm gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,845	5,121	11,037	16,828	49			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
18	TCR	A02	PL2	S3	First year annual Therm net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual Therm net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,461	4,609	9,933	15,145	44			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
19	TCR	A02	PL2	S3	Lifecycle ex-ante kW gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kW gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	402	537	1,164	2,188	-			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	Please note that during data quality review, this 2018 metric was found to
20	TCR	A02	PL2	S3	Lifecycle ex-ante kW net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kW net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	342	456	989	1,860	-			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	Please note that during data quality review, this 2018 metric was found to
21	TCR	A02	PL2	S3	Lifecycle ex-ante kWh gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kWh gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	670,665	887,323	1,864,574	2,770,730	29			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	Please note that during data quality review, this 2018 metric was found to
22	TCR	A02	PL2	S3	Lifecycle ex-ante kWh net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kWh net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	603,598	798,591	1,678,117	2,493,657	26			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	Please note that during data quality review, this 2018 metric was found to
23	TCR	A02	PL2	S3	Lifecycle ex-ante Therm gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante Therm gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50,815	67,793	147,055	225,633	260			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
24	TCR	A02	PL2	S3	Lifecycle ex-ante Therm net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante Therm net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45,734	61,013	132,350	203,069	234			Data pull from PA databases; DAC zipcodes per CalInviroScreen 3.0 Scores	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
25	TCR	A02	PL3	S4	First year annual kW gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kW gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	401	540	1,161	1,778	1			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
26	TCR	A02	PL3	S4	First year annual kW net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kW net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	361	485	1,044	1,600	0			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
27	TCR	A02	PL3	S4	First year annual kWh gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kWh gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	625,410	839,103	1,728,763	2,547,114	20,535			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
28	TCR	A02	PL3	S4	First year annual kWh net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kWh net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	562,869	755,193	1,555,887	2,292,403	19,556			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
29	TCR	A02	PL3	S4	First year annual Therm gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual Therm gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50,887	68,550	147,492	226,095	2,521			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
30	TCR	A02	PL3	S4	First year annual Therm net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual Therm net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45,798	61,695	132,743	203,485	2,269			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
31	TCR	A02	PL3	S4	Lifecycle ex-ante kW gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kW gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,423	7,310	15,851	31,290	3			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
32	TCR	A02	PL3	S4	Lifecycle ex-ante kW net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kW net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4,610	6,213	13,473	26,597	3			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
33	TCR	A02	PL3	S4	Lifecycle ex-ante kWh gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kWh gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7,938,504	10,657,084	22,100,818	32,764,586	60,123			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
34	TCR	A02	PL3	S4	Lifecycle ex-ante kWh net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kWh net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7,144,654	9,591,376	19,890,736	29,488,128	58,057			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
35	TCR	A02	PL3	S4	Lifecycle ex-ante Therm gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante Therm gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	689,712	929,799	2,017,112	3,114,171	13,939			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
36	TCR	A02	PL3	S4	Lifecycle ex-ante Therm net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante Therm net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	620,740	836,819	1,815,401	2,802,754	12,545			Data pull from PA databases; HTR zipcodes from CALEPA and 2016 Census data	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
37	TCR	A02	PL4	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24	23	24	23	2,172.867			Per CEDARs	None	
38	TCR	A02	PL4	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.23	0.17	0.09	0.05	54.72			Per CEDARs	None	
39	TCR	A02	PL4	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.18	1.64	0.92	0.59	742.23			Per CEDARs	None	
40	TCR	A02	PL4	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31	32	41	44	2,184.491			Per CEDARs	None	
41	TCR	A02	PL4	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	0.20	0.12	0.08	55.01			Per CEDARs	None	
42	TCR	A02	PL4	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Portfolio Level (PL)– All Sectors	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.28	1.04	0.72	0.55	746.20			Per CEDARs	None	
43	TCR	A02	RSF1	S1	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	First year annual kW gross	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	367	499	1,071	1,647	1			Per CEDARs	None	
44	TCR	A02	RSF1	S1	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	First year annual kW net	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	331	449	964	1,482	0			Per CEDARs	None	
45	TCR	A02	RSF1	S1	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	First year annual kWh gross	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	522,016	709,338	1,441,967	2,116,485	20,535			Per CEDARs	None	
46	TCR	A02	RSF1	S1	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	First year annual kWh net	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	469,815	638,404	1,297,770	1,904,836	19,556			Per CEDARs	None	
47	TCR	A02	RSF1	S1	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	First year annual Therm gross	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	46,891	63,656	136,812	210,488	2,521			Per CEDARs	None	
48	TCR	A02	RSF1	S1	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	First year annual Therm net	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	42,202	57,290	123,131	189,439	2,269			Per CEDARs	None	
49	TCR	A02	RSF1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	Lifecycle ex-ante kW gross	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,059	6,867	14,890	30,304	3			Per CEDARs	None	
50	TCR	A02	RSF1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	Lifecycle ex-ante kW net	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4,300	5,837	12,656	25,758	3			Per CEDARs	None	
51	TCR	A02	RSF1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	Lifecycle ex-ante kWh gross	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6,723,410	9,134,642	18,739,375	27,727,001	60,123			Per CEDARs	None	
52	TCR	A02	RSF1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	Lifecycle ex-ante kWh net	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6,051,069	8,221,178	16,865,438	24,954,301	58,057			Per CEDARs	None	
53	TCR	A02	RSF1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	Lifecycle ex-ante Therm gross	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	646,434	877,403	1,903,564	2,950,591	13,939			Per CEDARs	None	
54	TCR	A02	RSF1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single	Lifecycle ex-ante Therm net	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	581,791	789,663	1,713,208	2,655,532	12,545			Per CEDARs	None	
55	TCR	A03	RSF2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17	180	324	450	20			Per CEDARs	Definition: Single family are defined as Service account on residential rates, with dwelling code of single family home or single family dwelling.	
56	TCR	A03	RSF3	D1-D	Lifecycle NET kW	D1: Depth of interventions: Per downstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante kW net savings per participant - Opt-in - Downstream	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.91	6.90	7.79	11.30	0.01	3	284	D1D: Downstream methodology- ••Numerator: Total downstream savings claimed••Denominator: Total number of downstream participants	Per ED: "Energy savings" = lifecycle NET savings.	
57	TCR	A03	RSF3	D1-D	Lifecycle NET kWh	D1: Depth of interventions: Per downstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante kWh net savings per participant - Opt-in - Downstream	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9,728	9,718	10,381	11,042	204	58,057	284	D1D: Downstream methodology- ••Numerator: Total downstream savings claimed••Denominator: Total number of downstream participants	Per ED: "Energy savings" = lifecycle NET savings.	
58	TCR	A03	RSF3	D1-D	Lifecycle NET Therms	D1: Depth of interventions: Per downstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Downstream	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	935	933	1,055	1,175	44	12,545	284	D1D: Downstream methodology- ••Numerator: Total downstream savings claimed••Denominator: Total number of downstream participants	Per ED: "Energy savings" = lifecycle NET savings.	
59	TCR	A03	RSF3	D1-M	Lifecycle NET kW	D1: Depth of interventions: Per midstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante kW net savings per participant - Opt-in - Midstream	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			D1M: Midstream methodology –NOT FEASIBLE••••Numerator: Total midstream savings claimed ••Denominator: (not available) number or sector of midstream	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
60	TCR	A03	RSF3	D1-M	Lifecycle NET kWh	D1: Depth of interventions: Per midstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante kWh net savings per participant - Opt-in - Midstream	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			D1M: Midstream methodology –NOT FEASIBLE••••Numerator: Total midstream savings claimed ••Denominator: (not available) number or sector of midstream	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
61	TCR	A03	RSF3	D1-M	Lifecycle NET Therms	D1: Depth of interventions: Per midstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Midstream	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			D1M: Midstream methodology –NOT FEASIBLE••••Numerator: Total midstream savings claimed ••Denominator: (not available) number or sector of midstream	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
62	TCR	A03	RSF3	D1-O	Lifecycle NET kW	D1: Depth of interventions: Per opt out participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante kW net savings per participant - Opt-out	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			D1O Methodology: Only ex post savings can be claimed. Per participant savings will be calculated in the EM&V study.	D1O Key Definitions: 1) The only opt-out program is the Home Energy Report using social norming through neighborhood comparisons 2) Per ED: "Energy savings" = lifecycle NET savings.	
63	TCR	A03	RSF3	D1-O	Lifecycle NET kWh	D1: Depth of interventions: Per opt out participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante kWh net savings per participant - Opt-out	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			D1O Methodology: Only ex post savings can be claimed. Per participant savings will be calculated in the EM&V study.	D1O Key Definitions: 1) The only opt-out program is the Home Energy Report using social norming through neighborhood comparisons 2) Per ED: "Energy savings" = lifecycle NET savings.	
64	TCR	A03	RSF3	D1-O	Lifecycle NET Therms	D1: Depth of interventions: Per opt out participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante Therm net savings per participant - Opt-out	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			D1O Methodology: Only ex post savings can be claimed. Per participant savings will be calculated in the EM&V study.	D1O Key Definitions: 1) The only opt-out program is the Home Energy Report using social norming through neighborhood comparisons 2) Per ED: "Energy savings" = lifecycle NET savings.	
65	TCR	A03	RSF3	D1-U	Lifecycle NET kW	D1: Depth of interventions: Per upstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante kW net savings per participant - Opt-in - Upstream	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			D1U: Upstream methodology– NOT FEASIBLE••Numerator: Total upstream savings claimed••Denominator: (not available) number or sector of of upstream participants	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
66	TCR	A03	RSF3	D1-U	Lifecycle NET kWh	D1: Depth of interventions: Per upstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante kWh net savings per participant - Opt-in - Upstream	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			D1U: Upstream methodology– NOT FEASIBLE••Numerator: Total upstream savings claimed••Denominator: (not available) number or sector of of upstream participants	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
67	TCR	A03	RSF3	D1-U	Lifecycle NET Therms	D1: Depth of interventions: Per upstream participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Upstream	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			D1U: Upstream methodology– NOT FEASIBLE••Numerator: Total upstream savings claimed••Denominator: (not available) number or sector of of upstream participants	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
68	TCR	A03	RSF4	P1	Percent	P1: Penetration of energy efficiency programs in the	Metric	Percent of participation relative to eligible population	Percent of participation relative to eligible population	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0.06%	284	470,826	P1 Methodology: ••Numerator: Number of downstream participants) ••Denominator: total number of service accounts in the sector	Definition: "Eligible population" refers to Total number of service accounts in sector/segment, excluding CARE. "Participation" is defined as the first instance of participation, should a customer participate more than once or	
69	TCR	A03	RSF4	P3	Percent	P3: Penetration of energy efficiency programs in the	Metric	Percent of participation in disadvantaged communities	Percent of participation in disadvantaged communities	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0.06%	4	6,368	Numerator: Number of participants in disadvantaged communities.••••Denominator: Total number of customers in disadvantaged communities.	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
70	TCR	A03	RSF4	P4	Percent	P4: Penetration of energy efficiency programs in the	Metric	Percent of participation by customers defined as "hard-to-reach"	Percent of participation by customers defined as "hard-to-reach"	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0.26%	284	107,848	P4 Methodology:••Numerator: number of participants in HTR geographic area••Denominator: Total number of service accounts in HTR geographic area	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	Since PG&E does not yet report language data, this metric identifies
71	TCR	A03	RSF5	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31	32	34	32	2,172.867			Per CEDARs	None	
72	TCR	A03	RSF5	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	54.72			Per CEDARs	None	
73	TCR	A03	RSF5	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	1	1	0	742.23			Per CEDARs	None	
74	TCR	A03	RSF5	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45	49	66	74	2,184.491			Per CEDARs	None	
75	TCR	A03	RSF5	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	55.01			Per CEDARs	None	
76	TCR	A03	RSF5	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Residential (RSF)	2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	2	1	1	746.20			Per CEDARs	None	
77	TCR	A03	RSF6i	EI1	Btu	Energy intensity per SF household	Indicator	Average energy use intensity of single family homes (average usage per household – not adjusted)	Average electric and gas usage per household	Residential (RSF)	2020	N/A - Indicator	Indicator	Indicator	N/A	N/A	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A			Numerator: Total energy used in sector••Denominator: number of service accounts	Definition: Household refers to a service account	
78	TCR	A03	RMF1	S1-IU	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kW gross - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	64	82	73	177	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
79	TCR	A03	RMF1	S1-IU	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kW net - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	58	73	159	238	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
80	TCR	A03	RMF1	S1-IU	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kWh gross - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	157,147	200,814	435,501	650,693	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
81	TCR	A03	RMF1	S1-IU	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kWh net - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	141,432	180,732	391,951	585,624	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
82	TCR	A03	RMF1	S1-IU	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual Therm gross - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7,841	10,016	21,717	32,434	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
83	TCR	A03	RMF1	S1-IU	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual Therm net - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7,057	9,014	19,545	29,191	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
84	TCR	A03	RMF1	S1-IU	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kW gross - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	767	980	2,125	3,175	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
85	TCR	A03	RMF1	S1-IU	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kW net - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	652	833	1,806	2,699	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
86	TCR	A03	RMF1	S1-IU	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kWh gross - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,885,758	2,409,766	5,226,016	7,808,315	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
87	TCR	A03	RMF1	S1-IU	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kWh net - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,697,183	2,168,789	4,703,415	7,027,483	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
88	TCR	A03	RMF1	S1-IU	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante Therm gross - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94,093	120,188	260,604	389,212	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
89	TCR	A03	RMF1	S1-IU	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante Therm net - In Unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	84,683	108,170	234,543	350,291	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	
90	TCR	A03	RMF1	S1-MM	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kW gross - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
91	TCR	A03	RMF1	S1-MM	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kW net - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
92	TCR	A03	RMF1	S1-MM	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kWh gross - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
93	TCR	A03	RMF1	S1-MM	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kWh net - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
94	TCR	A03	RMF1	S1-MM	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual Therm gross - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
95	TCR	A03	RMF1	S1-MM	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual Therm net - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
96	TCR	A03	RMF1	S1-MM	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kW gross - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
97	TCR	A03	RMF1	S1-MM	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kW net - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
98	TCR	A03	RMF1	S1-MM	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kWh gross - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
99	TCR	A03	RMF1	S1-MM	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kWh net - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
100	TCR	A03	RMF1	S1-MM	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante Therm gross - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
101	TCR	A03	RMF1	S1-MM	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante Therm net - Master Metered	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
102	TCR	A03	RMF1	SI-CA	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kW gross - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
103	TCR	A03	RMF1	SI-CA	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kW net - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
104	TCR	A03	RMF1	SI-CA	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kWh gross - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
105	TCR	A03	RMF1	SI-CA	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual kWh net - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
106	TCR	A03	RMF1	SI-CA	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual Therm gross - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
107	TCR	A03	RMF1	SI-CA	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	First year annual Therm net - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
108	TCR	A03	RMF1	SI-CA	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kW gross - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
109	TCR	A03	RMF1	SI-CA	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kW net - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
110	TCR	A03	RMF1	SI-CA	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kWh gross - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
111	TCR	A03	RMF1	SI-CA	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante kWh net - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any buliding or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012

Table 17: Metrics Compliance Filing

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

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	2018 Target	2019 Target	2020 Target	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions	Proxy Explanation
112	TCR	A03	RMF1	SI-CA	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante Therm gross - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
113	TCR	A03	RMF1	SI-CA	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for	Lifecycle ex-ante Therm net - Common Area	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-			Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	PG&E consulted the American Community Survey and the 2010-2012
114	TCR	A03	RMF2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	51	98	138	-			Per CEDARS	Definition: Multi-family refers to any building or property with at least two residential housing units.	
115	TCR	A04	RMF3	D3a	Lifecycle NET kW	D3. Depth of interventions per building	Metric	Energy savings (kWh, kw, therms) per project (building)	Lifecycle ex-ante kW net per project (building)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	2	2	2	-			**D3 Methodology:**Numerator: Total Savings claimed for MF building retrofits**Denominator: Number of buildings that have been retrofitted, per	D3 Key Definitions: Project applications are made at the property level (premise ID and service account number) not the building level; building information will be used as is available on project applications**"Energy savings" = Lifecycle NET	Since PG&E does not require building information to be collected and
116	TCR	A04	RMF3	D3a	Lifecycle NET kWh	D3. Depth of interventions per building	Metric	Energy savings (kWh, kw, therms) per project (building)	Lifecycle ex-ante kWh net per project (building)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,475	5,477	5,477	5,480	-			**D3 Methodology:**Numerator: Total Savings claimed for MF building retrofits**Denominator: Number of buildings that have been retrofitted, per	D3 Key Definitions: Project applications are made at the property level (premise ID and service account number) not the building level; building information will be used as is available on project applications**"Energy savings" = Lifecycle NET	Since PG&E does not require building information to be collected and
117	TCR	A04	RMF3	D3a	Lifecycle NET Therms	D3. Depth of interventions per building	Metric	Energy savings (kWh, kw, therms) per project (building)	Lifecycle ex-ante Therm net per project (building)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	273	273	273	273	-			**D3 Methodology:**Numerator: Total Savings claimed for MF building retrofits**Denominator: Number of buildings that have been retrofitted, per	D3 Key Definitions: Project applications are made at the property level (premise ID and service account number) not the building level; building information will be used as is available on project applications**"Energy savings" = Lifecycle NET	Since PG&E does not require building information to be collected and
118	TCR	A04	RMF3	D4	Lifecycle NET kW	D4. Depth of interventions per property	Metric	Average savings per participant Savings per project (property)	Lifecycle ex-ante kW net per project (property)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	2	2	2	-			**D4 Methodology:**Numerator - Total downstream savings ****Denominator - number of participating properties (i.e., premise ID x service account)**	D4 Definition: "Project (property)" is defined by a unique project ID. "Energy savings" = Lifecycle NET savings	
119	TCR	A04	RMF3	D4	Lifecycle NET kWh	D4. Depth of interventions per property	Metric	Average savings per participant Savings per project (property)	Lifecycle ex-ante kWh net per project (property)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,475	5,477	5,477	5,480	-			**D4 Methodology:**Numerator - Total downstream savings ****Denominator - number of participating properties (i.e., premise ID x service account)**	D4 Definition: "Project (property)" is defined by a unique project ID. "Energy savings" = Lifecycle NET savings	
120	TCR	A04	RMF3	D4	Lifecycle NET Therms	D4. Depth of interventions per property	Metric	Average savings per participant Savings per project (property)	Lifecycle ex-ante Therm net per project (property)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	273	273	273	273	-			**D4 Methodology:**Numerator - Total downstream savings ****Denominator - number of participating properties (i.e., premise ID x service account)**	D4 Definition: "Project (property)" is defined by a unique project ID. "Energy savings" = Lifecycle NET savings	
121	TCR	A04	RMF3	D5	Lifecycle NET kW	D5. Depth of interventions: Per square foot	Metric	Energy savings (kWh, kw, therms) per square foot	Lifecycle ex-ante kW net per square foot	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	-			D5 Methodology: **(Numerator) Total downstream savings ****(Denominator) Total MF square foot per Assessor data	Per ED: "Energy savings" = lifecycle NET savings.	PG&E does not currently collect square footage data from multi-family
122	TCR	A04	RMF3	D5	Lifecycle NET kWh	D5. Depth of interventions: Per square foot	Metric	Energy savings (kWh, kw, therms) per square foot	Lifecycle ex-ante kWh net per square foot	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	7	7	7	-			D5 Methodology: **(Numerator) Total downstream savings ****(Denominator) Total MF square foot per Assessor data	Per ED: "Energy savings" = lifecycle NET savings.	PG&E does not currently collect square footage data from multi-family
123	TCR	A04	RMF3	D5	Lifecycle NET Therms	D5. Depth of interventions: Per square foot	Metric	Energy savings (kWh, kw, therms) per square foot	Lifecycle ex-ante Therm net per square foot	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	-			D5 Methodology: **(Numerator) Total downstream savings ****(Denominator) Total MF square foot per Assessor data	Per ED: "Energy savings" = lifecycle NET savings.	PG&E does not currently collect square footage data from multi-family
124	TCR	A04	RMF4	P1-P	Percent	P1. Penetration of energy efficiency programs in the	Metric	Percent of participation relative to eligible population (by unit, and property)	Percent of participation relative to eligible population by property	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0.00%			P1 Methodology: **Numerator: Number of downstream participating properties (unique project ID) **Denominator: total number of properties (unique service	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if	PG&E has not historically tracked and reported the number of unique
125	TCR	A04	RMF4	P1-U	Percent	P1. Penetration of energy efficiency programs in the	Metric	Percent of participation relative to eligible population (by unit, and property)	Percent of participation relative to eligible population by unit	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0.00%			P1 Methodology: **Numerator: Number of downstream participating MF units (unique service account = "unit") **Denominator: total number of units (service	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if	PG&E has not historically tracked and reported the number of unique units
126	TCR	A04	RMF4	P2	Percent	P2. Penetration of energy efficiency programs in terms	Metric	Percent of square feet of eligible population participating (by property)	Percent of square feet of eligible population participating (by property)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0.00%			P2 Methodology: ****Numerator: # service accounts participating x average sqft/service account)****Denominator: Square footage of all eligible accounts (per		PG&E does not currently collect square footage data from multi-family
127	TCR	A04	RMF4	P3: DAC	Percent	P3. Penetration of energy efficiency programs in the	Metric	Percent of participation in disadvantaged communities	Percent of participation in disadvantaged communities	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0.00%			Numerator: Number of participants (service accounts) in disadvantaged communities.****Denominator: Total number of customers (service accounts) in	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
128	TCR	A04	RMF4	P4	Percent	P4. Penetration of energy efficiency programs in the	Metric	Percent of participation by customers defined as "hard-to-reach"	Percent of participation by customers defined as "hard-to-reach"	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0.00%			P4 Methodology: **Numerator: Number of participants in HTR geographic area**Denominator: Total number of service accounts in HTR geographic area	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	Since PG&E does not collect language data, this metric identifies residential
129	TCR	A04	RMF5	B1	Percent	MF Benchmarking Penetration	Metric	Percent of benchmarked multi-family properties relative to the eligible population	Percent of benchmarked multi-family properties relative to the eligible population	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	0.00%			~~Total benchmarked units in MF sector**Total number of service account in MF sector****Benchmarked via Portfolio Manager****2019 MF with 17 or units MUST~~		PG&E attempted to identify the number of MF properties from the
130	TCR	A04	RMF5	B6	Percent	Benchmarking of HTR Properties	Metric	Percent of benchmarking by properties defined as "hard-to-reach"	Percent of benchmarking by properties defined as "hard-to-reach"	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	0.00%			~~Benchmarking per Portfolio Manager. Service accounts in HTR market~~		Since PG&E does not collect language data, this metric identifies multifamily
131	TCR	A04	RMF6	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	15	15	15	-			Per CEDARs	None	
132	TCR	A04	RMF6	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	-			Per CEDARs	None	
133	TCR	A04	RMF6	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	2	1	1	-			Per CEDARs	None	
134	TCR	A04	RMF6	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	15	15	15	-			Per CEDARs	None	
135	TCR	A04	RMF6	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	-			Per CEDARs	None	
136	TCR	A04	RMF6	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Residential Sector – Multi-family (RMF)	2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	-			Per CEDARs	None	
137	TCR	A04	RMF7	EI2	Btu	Energy Intensity per MF unit	Indicator	Average energy use intensity of multifamily units: including in-unit accounts)	Average electric and gas usage per unit	Residential Sector – Multi-family (RMF)	2021	N/A - Indicator	Indicator	ndicator	N/A	N/A	N/A	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	-			Numerator: Total usage of Res MF sector****Denominator: total units (service accounts) in Res MF sector		PG&E will use unique premise and account IDs as a proxy for total units in
138	TCR	A04	RMF7	EI3	Btu	Energy Intensity per MF unit square foot	Indicator	Average energy use intensity of multifamily buildings (average usage per square foot – not adjusted	Average electric and gas usage per square foot	Residential Sector – Multi-family (RMF)	2021	N/A - Indicator	Indicator	ndicator	N/A	N/A	N/A	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	-			Numerator: Total usage of Res MF sector****Denominator: average number of units in MF building times average square footage of MF units		PG&E will use unique premise and account ID as a proxy for total units in
139	NA	A05	C1	S1	kW	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW gross	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
140	NA	A05	C1	S1	kW	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW net	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
141	NA	A05	C1	S1	kWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh gross	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
142	NA	A05	C1	S1	kWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh net	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
143	NA	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm gross	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
144	NA	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm net	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
145	NA	A05	C1	S1	kW	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW gross	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
146	NA	A05	C1	S1	kW	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW net	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
147	NA	A05	C1	S1	kWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh gross	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
148	NA	A05	C1	S1	kWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh net	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
149	NA	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm gross	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
150	NA	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm net	Commercial Sector (C)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
151	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent first year annual kW gross	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
152	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent first year annual kW net	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
153	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent first year annual kWh gross	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
154	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent first year annual kWh net	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
155	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent first year annual Therm gross	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
156	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent first year annual Therm net	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
157	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent lifecycle ex-ante kW gross	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
158	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent lifecycle ex-ante kW net	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
159	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent lifecycle ex-ante kWh gross	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
160	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent lifecycle ex-ante kWh net	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
161	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent lifecycle ex-ante Therm gross	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
162	NA	A05	C1	S2	Percent	S2. Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a	Percent lifecycle ex-ante Therm net	Commercial Sector (C)	2016															Numerator = Metric C1 Denominator = Total commercial usage from PG&E database	None	
163	NA	A05	C2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Commercial Sector (C)	2016															Calculated using CET, and reported by sector consistent with primary sector groupings in CEDARS PROGRAM specification.	Includes CO2 (in metric tons) but not NOX and PM10 as these are not GHG equivalents. For details regarding electric C02 emissions reduction values, refer to note in cell AA5	
164	NA	A05	C3	D2	Percent	D2. Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption	Percent lifecycle gross kW	Commercial Sector (C)	2016															Did not calculate as Attachment A states: "Energy savings (gross kWh, therms) as a fraction of total project consumption. Does not include gross kW.	None	
165	NA	A05	C3	D2	Percent	D2. Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption	Percent lifecycle gross kWh	Commercial Sector (C)	2016															Numerator: Energy savings claimed for commercial projects, consistent with CEDARS PROGRAM classification	"Project" is defined as "per application"	
166	NA	A05	C3	D2	Percent	D2. Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption	Percent lifecycle gross Therms	Commercial Sector (C)	2016															Numerator: Energy savings claimed for commercial projects, consistent with CEDARS PROGRAM classification	"Project" is defined as "per application"	
167	NA	A05	C4	P1L	Percent	P1. Penetration of energy efficiency programs in the	Metric	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for large customers	Commercial Sector (C)	2016															Numerator: Number of participating large customers (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Large customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.	
168	NA	A05	C4	P1M	Percent	P1. Penetration of energy efficiency programs in the	Metric	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for medium customers	Commercial Sector (C)	2016															Numerator: Number of participating medium customers (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Medium customers are defined as those who use between 40,000-500,000kWh or 10,000-250,000 therms annually.	
169	NA	A05	C4	P1S	Percent	P1. Penetration of energy efficiency programs in the	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															Numerator: Number of participating small customers (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Small customers are defined as those who use less than 40,000 kWh or 10,000 therms annually.	
170	NA	A05	C4	P2	Percent	P2. Penetration of energy efficiency programs in terms	Metric	Percent of square feet of eligible population	Percent of square feet of eligible population	Commercial Sector (C)	2016															Numerator: square footage of participating service commercial customers Denominator: square footage of the commercial sector	PG&E does not currently collect square footage data from participants. The numerator for this metric multiplies the number of commercial sector participants by the average square footage of commercial buildings in PG&E's service	PG&E also considered using data from the Commercial Saturation Survey to
171	NA	A05	C4	P4	Percent	P4. Penetration of energy efficiency programs in the	Metric	Percent of participation by customers defined as "hard-to-reach"	Percent of participation by customers defined as "hard-to-reach"	Commercial Sector (C)	2016															Numerator: Number of commercial HTR participants (unique account and premise ID) Denominator: Total number of HTR commercial customers (unique account and	HTR customers defined in accordance with D.18-05-041.	PG&E does not currently collect whether a commercial customer rents
172	NA	A05	C5	B2	Percent	Square Footage of Commercial Benchmarking	Metric	Percent of benchmarked square feet of eligible population	Percent of benchmarked square feet of eligible population	Commercial Sector (C)	2016															Numerator: Total square footage of benchmarked commercial buildings in Portfolio Manager using PG&E portal	This metric includes buildings benchmarked within the calendar year	PG&E estimated the total square footage of the commercial sector using
173	NA	A05	C5	B5L	Percent	Benchmarking Penetration for Commercial Sector	Metric	Percent of benchmarked customers relative to eligible population for large customers	Percent of benchmarked customers relative to eligible population for large customers	Commercial Sector (C)	2016															Numerator: Number of large commercial customers that benchmarked on Portfolio Manager using PG&E portal	Large customers are defined consistent with criteria approved in PG&E's Business Plan. Specifically, large customers use more than 500,000 kWh or 250,000 therms per year.	PG&E considered using data on covered commercial buildings from the AB 802
174	NA	A05	C5	B5M	Percent	Benchmarking Penetration for Commercial Sector	Metric	Percent of benchmarked customers relative to eligible population for medium customers	Percent of benchmarked customers relative to eligible population for medium customers	Commercial Sector (C)	2016															Numerator: Number of medium commercial customers that benchmarked on Portfolio Manager using PG&E portal	Medium customers are defined consistent with criteria approved in PG&E's Business Plan. Specifically, medium customers use between 40,000-500,000 kWh or 10,000-250,000 therms per year.	PG&E considered using data on covered commercial buildings from the AB 802
175	NA	A05	C5	B5S	Percent	Benchmarking Penetration for Commercial Sector	Metric	Percent of benchmarked customers relative to eligible population for small customers	Percent of benchmarked customers relative to eligible population for small customers	Commercial Sector (C)	2016															Numerator: Number of small commercial customers that benchmarked on Portfolio Manager using PG&E portal	Small customers are defined consistent with criteria approved in PG&E's Business Plan. Specifically, small customers use less than 40,000 kWh or 10,000 therms per year.	PG&E considered using data on covered commercial buildings from the AB 802
176	NA	A05	C5	B6	Percent	Benchmarking of HTR Properties	Metric	Percent of benchmarking by customers defined as "hard-to-reach"	Percent of benchmarking by customers defined as "hard-to-reach"	Commercial Sector (C)	2016															Numerator: number of commercial HTR customers that benchmarmed on Portfolio Manager using PG&E portal	HTR customers defined based on D.18-05-041.	PG&E does not currently collect whether a commercial customer rents
177	NA	A05	C6	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Commercial Sector (C)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
178	NA	A05	C6	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Commercial Sector (C)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
179	NA	A05	C6	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Commercial Sector (C)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
180	NA	A05	C6	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Commercial Sector (C)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
181	NA	A05	C6	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Commercial Sector (C)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
182	NA	A05	C6	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Commercial Sector (C)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
183	NA	A06	C7i	N1	Percent	NMEC	Indicator	Fraction of total projects utilizing Normalized Metered Energy Consumption (NMEC) to estimate savings	Fraction of total projects utilizing Normalized Metered Energy Consumption (NMEC) to estimate	Commercial Sector (C)	N/A - Indicator															Per CAEECC meeting : "Fraction of total custom projects utilizing NMEC to estimate savings".****Data from CMPA (Custom Measure and Project Archive)		
184	NA	A06	C7i	N2	Percent	NMEC	Indicator	Fraction of total savings (gross kWh and therm) derived from NMEC analysis	Percent of total savings (gross kWh and therm) derived from NMEC analysis	Commercial Sector (C)	N/A - Indicator															Per CAEECC Meeting: "Fraction of total custom savings derived from NMEC analysis".****Data from CMPA.		
185	NA	A06	C8i	CS	Percent	Satisfaction	Indicator	Improvement in customer satisfaction	Percent Improvement in customer satisfaction	Commercial Sector (C)	N/A - Indicator															Per CAEECC Meeting: M&E will develop and field a consistent survey instrument annually.		
186	NA	A06	C8i	TS	Percent	Satisfaction	Indicator	Improvement in trade ally satisfaction	Percent Improvement in trade ally satisfaction	Commercial Sector (C)	N/A - Indicator															Per CAEECC Meeting: M&E will develop and field a consistent survey instrument annually.	Numerator = Current Year Percentage - Baseline Year Percentage. Denominator = Baseline Year Percentage.	Informal Survey of Trade Pros found for each of the previous target years. Scale
187	NA	A06	C9i	F1	Percent	Investment in EE	Indicator	Fraction of total investments made by ratepayers and private capital	Percent of total investments made by ratepayers and private capital	Commercial Sector (C)	N/A - Indicator															Per CAEECC meeting: and ED : Numerator: Total incentive amounts		
188	NA	A06	P1	S1	First year annual kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	First year annual kW gross	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
189	NA	A06	P1	S1	First year annual kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	First year annual kW net	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
190	NA	A06	P1	S1	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	First year annual kWh gross	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
191	NA	A06	P1	S1	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	First year annual kWh net	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
192	NA	A06	P1	S1	First year annual Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	First year annual Therm gross	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
193	NA	A06	P1	S1	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	First year annual Therm net	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
194	NA	A06	P1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	Lifecycle ex-ante kW gross	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
195	NA	A06	P1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	Lifecycle ex-ante kW net	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
196	NA	A06	P1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	Lifecycle ex-ante kWh gross	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
197	NA	A06	P1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	Lifecycle ex-ante kWh net	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
198	NA	A06	P1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	Lifecycle ex-ante Therm gross	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
199	NA	A06	P1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public	Lifecycle ex-ante Therm net	Public Sector (P)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	Since the Potential Study does not distinguish public sector energy savings
200	NA	A06	P2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) based on net lifecycle kWh and Therms savings, reported on an annual basis.	CO2-equivalent of net annual kWh savings	Public Sector (P)	2016															Calculated using CET, and reported by sector consistent with primary sector groupings in CEDARS PROGRAM specification.	Includes CO2 but not NOX and PM10 as these are not GHGs. For details regarding electric C02 emissions reduction values, refer to note in cell AA5	
201	NA	A06	P3i	D3b	Percent annual NET kW	D3. Depth of interventions per building	Indicator	Average percent energy savings (kWh, kW, therms) per project building or facility	Percent annual net kW per project building or facility	Public Sector (P)	N/A - Indicator															Numerator - Total savings claimed for MF retrofit projects Denominator - Number of participating properties		
202	NA	A06	P3i	D3b	Percent annual NET kWh	D3. Depth of interventions per building	Indicator	Average percent energy savings (kWh, kW, therms) per project building or facility	Percent annual net kWh per project building or facility	Public Sector (P)	N/A - Indicator															Numerator - Total savings claimed for MF retrofit projects Denominator - Number of participating properties		
203	NA	A06	P3i	D3b	Percent annual NET Therms	D3. Depth of interventions per building	Indicator	Average percent energy savings (kWh, kW, therms) per project building or facility	Percent annual net Therms per project building or facility	Public Sector (P)	N/A - Indicator															Numerator - Total savings claimed for MF retrofit projects Denominator - Number of participating properties		
204	NA	A06	P3i	D5	Annual NET kW	D5. Depth of interventions: Per square foot	Indicator	Average annual energy savings (kWh, kW, therms) per project building floor plan area	Average annual net kW savings per project building floor plan area	Public Sector (P)	N/A - Indicator															Numerator: Total downstream savings Denominator Total number of service accounts participating. x average square		
205	NA	A06	P3i	D5	Annual NET kWh	D5. Depth of interventions: Per square foot	Indicator	Average annual energy savings (kWh, kW, therms) per project building floor plan area	Average annual net kW savings per project building floor plan area	Public Sector (P)	N/A - Indicator															Numerator: Total downstream savings Denominator: Total number of service accounts participating. x average square		
206	NA	A06	P3i	D5	Annual NET Therms	D5. Depth of interventions: Per square foot	Indicator	Average annual energy savings (kWh, kW, therms) per project building floor plan area	Average annual net Therm savings per project building floor plan area	Public Sector (P)	N/A - Indicator															Numeartor: Total downstream savings Denominator: Total number of service accounts participating. x average square		
207	NA	A06	P3i	W1	Annual NET kW	Water	Indicator	Average annual energy savings (kWh, kW therms) per annual flow through project water/wastewater facilities	Average annual Net kW savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A - Indicator															Numerator: claimed savings from water/wastewater customers Denominator: Baseline energy usage as reported on project applications		
208	NA	A06	P3i	W1	Annual NET kWh	Water	Indicator	Average annual energy savings (kWh, kW therms) per annual flow through project water/wastewater facilities	Average annual Net kWh savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A - Indicator															Numerator: claimed savings from water/wastewater customers Denominator: Baseline energy usage as reported on project applications		
209	NA	A06	P3i	W1	Annual NET Therms	Water	Indicator	Average annual energy savings (kWh, kW therms) per annual flow through project water/wastewater facilities	Average annual Net Therms savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A - Indicator															Numerator: claimed savings from water/wastewater customers Denominator: Baseline energy usage as reported on project applications		
210	NA	A07	P4	P1	Percent	P1. Penetration of energy efficiency programs in the	Metric	Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)	2016															Numerator: Number of public sector unique account and premise IDs that participated in an EE program	Participation is defined as the first instance of participation. Public sector customers are defined by NAICS codes.	
211	NA	A07	P4i	P2	Percent	P2. Penetration of energy efficiency programs in terms	Indicator	Percent of estimated floorplan area (i.e., ft2) of all Public Sector buildings participating in building	Percent of estimated floorplan area (i.e., ft2) of all Public Sector buildings participating in building	Public Sector (P)	N/A - Indicator															Numerator: square footage of participating unique account and premise IDs Denominator: Square footage of all unique public sector premise and account IDs		
212	NA	A07	P4i	W2	Percent	Water	Indicator	Percent of Public Sector water/wastewater flow (i.e., annual average Million Gallons per Day) enrolled in	Percent of Public Sector water/wastewater flow enrolled in non-building water/wastewater	Public Sector (P)	N/A - Indicator															As reported by water/wastewater treatment facilities pumping stations that respond to survey		
213	NA	A07	P5	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Public Sector (P)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
214	NA	A07	P5	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Public Sector (P)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
215	NA	A07	P5	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Public Sector (P)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
216	NA	A07	P5	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Public Sector (P)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
217	NA	A07	P5	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Public Sector (P)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
218	NA	A07	P5	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Public Sector (P)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
219	NA	A07	P6i	F2	$	Investment in EE	Indicator	Total program-backed financing distributed to Public Sector customers requiring repayment (i.e., loans, OBF)	Total program-backed financing distributed to Public Sector customers requiring repayment	Public Sector (P)	N/A - Indicator															Total amount loaned through PA programs	"Total program backed financing...requiring repayment" = total loan amount	
220	NA	A07	P7	B3	Percent	Public Sector Benchmarking Penetration Calendar Year	Metric	Percent of Public Sector buildings with current benchmark	Percent of Public Sector buildings with current benchmark	Public Sector (P)	2016															Numerator: Number of public sector buildings benchmarked on Portfolio Manager using PG&E portal	This metric includes buildings benchmarked within the calendar year	PG&E used the number of unique account and premise IDs as a proxy for
221	NA	A07	P7	EI4	Btu	Energy intensity per public sector building	Metric	Average energy use intensity of all Public Sector buildings	Average energy use intensity of all Public Sector buildings	Public Sector (P)	2016															Numerator: Total sector-level energy use from PG&E database (gas + electric) Denominator: Number of unique public sector account and premise IDs		
222	NA	A07	P7i	B4	Percent	Public Sector Square Foot Benchmarking Penetration in	Indicator	Percent of floorplan area of all Public Sector buildings with current benchmark	Percent of floorplan area of all Public Sector buildings with current benchmark	Public Sector (P)	N/A - Indicator															Numerator: Total square footage of public buildings benchmarked within calendar year, in Portfolio Manager	This metric includes buildings benchmarked within the calendar year	
223	NA	A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kW gross	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
224	NA	A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kW net	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
225	NA	A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kWh gross	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	

Table 17: Metrics Compliance Filing

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

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	2018 Target	2019 Target	2020 Target	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions	Proxy Explanation
226	NA	A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual kWh net	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
227	NA	A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual Therm gross	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
228	NA	A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	First year annual Therm net	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
229	NA	A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kW gross	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
230	NA	A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kW net	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
231	NA	A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kWh gross	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
232	NA	A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante kWh net	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
233	NA	A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante Therm gross	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
234	NA	A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in	Lifecycle ex-ante Therm net	Industrial (I)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
235	NA	A08	In2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Industrial (I)	2016															Calculated using CET, and reported by sector consistent with primary sector groupings in CEDARS PROGRAM specification.	Includes CO2 but not NOx and PM10 as these are not GHG equivalents. For details regarding electric C02 emissions reduction values, refer to note in cell AA5	
236	NA	A08	In3	P1L	Percent	P1: Penetration of energy efficiency programs in the	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for large customers	Industrial (I)	2016															Numerator: Number of participating large customers (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Large customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.	
237	NA	A08	In3	P1M	Percent	P1: Penetration of energy efficiency programs in the	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for medium customers	Industrial (I)	2016															Numerator: Number of participating medium customers (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Medium customers are defined as those who use between 40,000-500,000kWh or 10,000-250,000 therms annually.	
238	NA	A08	In3	P1S	Percent	P1: Penetration of energy efficiency programs in the	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															Numerator: Number of participating small customers (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Small customers are defined as those who use less than 40,000 kWh or 10,000 therms annually.	
239	NA	A08	In4i	P5L	Percent	New participation	Indicator	Percent of customers participating that have not received an incentive for the past three years, annually, by small,	Percent of large customers participating in reporting year that have not received an incentive for the past	Industrial (I)	N/A - Indicator															Numerator: Annual number of large industrial participants (by service account) that have not received an incentive for the past 3 years	Large customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.	
240	NA	A08	In4i	P5M	Percent	New participation	Indicator	Percent of customers participating that have not received an incentive for the past three years, annually, by small,	Percent of medium customers participating in reporting year that have not received an incentive	Industrial (I)	N/A - Indicator															Numerator: Annual number of medium industrial participants (by service account) that have not received an incentive for the past 3 years	Medium customers are defined as those who use between 40,000-500,000kWh or 10,000-250,000 therms annually.	
241	NA	A08	In4i	P5S	Percent	New participation	Indicator	Percent of customers participating that have not received an incentive for the past three years, annually, by small,	Percent of small customers participating in reporting year that have not received an incentive	Industrial (I)	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 therms annually.	
242	NA	A08	In5	LC	$/kW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Industrial (I)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
243	NA	A08	In5	LC	$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Industrial (I)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
244	NA	A08	In5	LC	$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Industrial (I)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
245	NA	A08	In5	LC	$/kW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Industrial (I)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
246	NA	A08	In5	LC	$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Industrial (I)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
247	NA	A08	In5	LC	$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Industrial (I)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
248	NA	A08	In6	S2	Percent first year annual kW gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kW gross	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
249	NA	A08	In6	S2	Percent first year annual kW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kW net	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
250	NA	A08	In6	S2	Percent first year annual kWh gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kWh gross	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
251	NA	A08	In6	S2	Percent first year annual kWh net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kWh net	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
252	NA	A08	In6	S2	Percent first year annual Therm gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual Therm gross	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
253	NA	A08	In6	S2	Percent first year annual Therm net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual Therm net	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
254	NA	A08	In6	S2	Percent lifecycle ex-ante kW gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kW gross	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
255	NA	A08	In6	S2	Percent lifecycle ex-ante kW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kW net	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
256	NA	A08	In6	S2	Percent lifecycle ex-ante kWh gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kWh gross	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
257	NA	A08	In6	S2	Percent lifecycle ex-ante kWh net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kWh net	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
258	NA	A08	In6	S2	Percent lifecycle ex-ante Therm gross	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante Therm gross	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
259	NA	A08	In6	S2	Percent lifecycle ex-ante Therm net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante Therm net	Industrial (I)	2016															Numerator = Metric IN 1 Denominator = Total sectoral usage from PG&E database	Defined as savings as a percentage of sectoral usage, based on conversations between PAs and ED.	
260	NA	A09	A1	S1	kW	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	First year annual kW gross	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
261	NA	A09	A1	S1	kW	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	First year annual kW net	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
262	NA	A09	A1	S1	kWh	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	First year annual kWh gross	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
263	NA	A09	A1	S1	kWh	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	First year annual kWh net	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
264	NA	A09	A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	First year annual Therm gross	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
265	NA	A09	A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	First year annual Therm net	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
266	NA	A09	A1	S1	kW	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	Lifecycle ex-ante kW gross	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
267	NA	A09	A1	S1	kW	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	Lifecycle ex-ante kW net	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
268	NA	A09	A1	S1	kWh	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	Lifecycle ex-ante kWh gross	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
269	NA	A09	A1	S1	kWh	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	Lifecycle ex-ante kWh net	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
270	NA	A09	A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	Lifecycle ex-ante Therm gross	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
271	NA	A09	A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector,	Lifecycle ex-ante Therm net	Agricultural (A)	2016															Baseline data is reported consistent with primary sector groups in CEDARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets	None	
272	NA	A09	A2	G	MT CO2eq	GHG	Metric	Greenhouse gasses (MT CO2eq) net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Agricultural (A)	2016															Calculated using CET, and reported by sector consistent with primary sector groupings in CEDARS PROGRAM specification.	Includes CO2 (in metric tons) but not NOx and PM10 as these are not GHG equivalents. For details regarding electric C02 emissions reduction values, refer to note in cell AA5	
273	NA	A09	A3	: Particip	Percent	P1: Penetration of energy efficiency programs in the	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for large customers	Agricultural (A)	2016															Numerator: Number of participating large customers (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Large customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.	
274	NA	A09	A3	: Particip	Percent	P1: Penetration of energy efficiency programs in the	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															Numerator: Number of participating medium customers (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Medium customers are defined as those who use between 40,000-500,000kWh or 10,000-250,000 therms annually.	
275	NA	A09	A3	: Particip	Percent	P1: Penetration of energy efficiency programs in the	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for small customers	Agricultural (A)	2016															Numerator: Number of participating small customers (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Small customers are defined as those who use less than 40,000 kWh or 10,000 therms annually.	
276	NA	A09	A4	LC	$/kW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Agricultural (A)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
277	NA	A09	A4	LC	$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Agricultural (A)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
278	NA	A09	A4	LC	$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Agricultural (A)	2016															PAC cost per kWh or per therm or per kW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
279	NA	A09	A4	LC	$/kW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Agricultural (A)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
280	NA	A09	A4	LC	$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Agricultural (A)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
281	NA	A09	A4	LC	$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Agricultural (A)	2016															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	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.	
282	TCR	A10	CS1	S1	Net GWh	S1: Energy Savings	Metric	Net Energy Savings: GWH	Net GWh savings	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year	
283	TCR	A10	CS1	S1	Net MMTherms	S1: Energy Savings	Metric	Net Energy Savings: MM Therms	Net MMTherms savings	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year	
284	TCR	A10	CS1	S1	Net MW	S1: Energy Savings	Metric	Net Energy Savings: MW	Net MW savings	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year	
285	TCR	A10	CS2	1	Count	Advocacy-Building	Metric	Number of measures supported by CASE studies in rulemaking cycle (current work)	Number of measures supported by CASE studies in rulemaking cycle (current work)	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12 total	12 total	TBD	TBD	N/A	N/A	N/A	Measures supported by CASE	Baseline and targets for measures supported are for 3 year cycle rather than annual.	IOUs report
286	TCR	A10	CS2	2	Count	Advocacy-Building	Metric	Number of measures adopted by CEC in rulemaking cycle (indicator of past work)	Number of measures adopted by CEC in rulemaking cycle (indicator of past work)	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12 total	12 total	TBD	TBD	N/A	N/A	N/A	Measures adopted by CEC	Baseline and targets for measures supported are for 3 year cycle rather than annual.	IOUs report
287	TCR	A10	CS3	1	Count	Advocacy-Appliance	Metric	Number of T-20 measures supported by CASE studies in rulemaking cycle (current work)	Number of T-20 measures supported by CASE studies in rulemaking cycle (current work)	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10 total	10 total	TBD	TBD	N/A	N/A	N/A	T-20 measures supported by CASE	Baseline is annual. Targets for measures supported are for 3 year cycle rather than annual. 2017 chosen as baseline since 2016 was zero.	IOUs report
288	TCR	A10	CS3	2	Count	Advocacy-Appliance	Metric	Number of measures adopted by CEC in current year	Number of measures adopted by CEC in current year	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10 total	10 total	TBD	TBD	N/A	N/A	N/A	Measures adopted by CEC	Baseline is annual. Targets for measures adopted are for 3 year cycle rather than annual.	IOUs report
289	TCR	A10	CS4	1	Count	Advocacy-Federal	Metric	Number of federal standards adopted for which a utility advocated (IOUs to list advocated activites)	Number of federal standards adopted for which a utility advocated (IOUs to list advocated activites)	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	1	TBD	TBD	N/A	N/A	N/A	Standards adopted	Baselines and targets are annual. Any federal standards based upon Title 20 that were adopted will still be included in the federal count.	IOUs report
290	TCR	A10	CS4	2	Count	Advocacy-Federal	Metric	Percent of federal standards adopted for which a utility advocated (#IOU supported / # DOE adopted)	Percent of federal standards adopted for which a utility advocated (#IOU supported / # DOE adopted)	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	1	TBD	TBD	N/A	N/A	N/A	# IOUs supported / # DOE adopted	Baselines and targets are annual.	IOUs report
291	TCR	A10	CS5	1	Count	Reach Codes	Metric	The number of local government Reach Codes implemented (this is a joint IOU and REN effort)	The number of local government Reach Codes implemented (this is a joint IOU and REN effort)	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25 total	25 total	TBD	TBD	N/A	N/A	N/A	Reach Code ordinances implemented	Targets are total for a three-year Title 24 code cycle. Jurisdictions having multiple reach codes will be counted by reach code rather than by jurisdiction. Accomplishments will be reported from the CEC Reach	IOUs report
292	TCR	A11	CS6	1	Count	Compliance Improvement	Metric	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g.	Number of training activities (classes, webinars) held, number of market actors participants by	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	138	138	TBD	TBD	N/A	N/A	N/A	Number of training activities	118 live training sessions and 20 webinars in 2017; short, mid, and long-term targets are annual	
293	TCR	A11	CS6	2	Count	Compliance Improvement	Metric	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g.	Number of training activities (classes, webinars) held, number of market actors participants by	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,600	3,600	TBD	TBD	N/A	N/A	N/A	Not applicable to 3C-REN. Number of participants	3000 attendees for live training and 600 attendees for webinars in 2017; short, mid, and long-term targets are annual. Attendees will be shown by major segment (i.e., building officials, builders, architects, HERS	
294	TCR	A11	CS6	3	Score	Compliance Improvement	Metric	Increase in code compliance knowledge pre/post training	Increase in code compliance knowledge pre/post training	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	TBD	TBD	N/A	N/A	N/A	Knowledge score	Code compliance knowledge increase will be tested via pre and post training questionnaires. Surveys will be conducted for training that lasts longer than three hours (in order to preserve time for instruction in	
295	TCR	A11	CS6R	1	Percent	Compliance Improvement	Metric	The percentage increase in closed permits for building projects triggering energy code compliance within	The percentage increase in closed permits for building projects triggering energy code compliance	Codes & Standards (CS)	2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TBD	TBD	TBD	TBD	N/A	N/A	N/A	Percentage increase in closed permits. 3C-REN in collaboration with BayREN explored potential options to		
296	TCR	A11	CS6Ri	1	Count	Compliance Improvement	Indicator	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	Indicator	Indicator	N/A	N/A	6	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	11	N/A	N/A	Number of jurisdictions participating		
297	TCR	A11	CS6Ri	1	Percent	Compliance Improvement	Indicator	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	Indicator	Indicator	N/A	N/A	21.40%	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	39.29%	11	28	Numerator: Number of City or County local government jurisdictions participating in a Forum; Denominator: Number of City of County local government jurisdictions in 3C-	An Energy Policy Forum is a 3C-REN Codes and Standards Program hosted regional event for public/private building professionals and addressing energy use, energy efficiency, and or Title 24 compliance	
298	TCR	A11	CS6Ri	2	Count	Compliance Improvement	Indicator	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	Indicator	Indicator	N/A	N/A	1	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	6	N/A	N/A	Number of jurisdictions receiving assistance		
299	TCR	A11	CS6Ri	2	Percent	Compliance Improvement	Indicator	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Percent of jurisdictions receiving Energy Policy technical assistance.	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	Indicator	Indicator	N/A	N/A	3.60%	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	21.40%	6	28	Percent of jurisdictions receiving assistance		
300	TCR	A11	CS6Ri	3	Count	Compliance Improvement	Indicator	Buildings receiving enhanced code compliance support and delivering compliance data to program evaluators	Buildings receiving enhanced code compliance support.	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	Indicator	Indicator	N/A	N/A	8	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	51	N/A	N/A	Number of buildings receiving support		
301	TCR	A12	WET-1	1	Count	Collaborations	Metric	Number of collaborations by Business Plan sector to jointly develop or share training materials or resources.	Number of collaborations by Business Plan sector to jointly develop or share training materials or	Workforce Education and Training (WET)	2019	N/A	N/A	N/A	N/A	N/A	19	N/A	4	8	12	16	22	N/A	N/A	Collaboration agreements are not required.	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.	
302	TCR	A12	WET-2	1	Count	Penetration	Metric	Number of participants by sector	Number of participants by sector	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A	N/A	N/A	3	N/A	110	120	160	230	416	N/A	N/A	Report from class registration database.	"Sector" refers to: a. Residential versus non-residential b. Energy efficiency training topic area (e.g., Lighting, HVAC, Agriculture) "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. Please note that the IOUs will begin using a standard categorization of training topic areas in 2018.	
303	TCR	A12	WET-2	1	Percentage	Penetration	Metric	Percent of participation relative to eligible target population for curriculum	Percent of participation relative to eligible target population for curriculum	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A	N/A	N/A	2.98%	N/A	0	0	0	0	2.33%	296	12,711	Numerator: Report from class registration database, Denominator: Advanced Energy Economy Institute (AEEI) report finding: "Energy	"Participation" means unique participants, meaning that one person attending two classes throughout the year would be counted as one participant.	
304	TCR	A12	WET-3	1	Percentage	Diversity	Metric	Percent of total WE&T training program participants that meet the definition of disadvantaged worker.	Percent of total WE&T training program participants that meet the definition of disadvantaged worker.	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A	N/A	N/A	0.26%	N/A	TBD	TBD	TBD	TBD	3.72%	11	296	Report of provided zip codes from class registration database cross-referenced with the list of "disadvantaged worker" zip codes. Please note that these zip	"Disadvantaged Worker" means a worker that (1) has a referral from a collaborating community-based organization (CBO), state agency, or workforce investment board; or (2) lives in a ZIP code that is in the top 25% in one or more	
305	TCR	A12	WET-3	1	Percentage	Diversity	Metric	Percent of incentive dollars spent on contracts with a demonstrated commitment to provide career pathways to	Percent of incentive dollars spent on contracts with a demonstrated commitment to provide career	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TBD	TBD	TBD	TBD	N/A	N/A	N/A	Disadvantaged worker tracking is currently not required by PA contract terms and conditions.	"Applies only to programs that install, modify, repair, or maintain EE equipment where the incentive is paid to an entity other than a manufacturer, distributor, or retailer of equipment. This applicability standard is adopted from the	
306	TCR	A12	WET-3i	1	Count	Diversity	Indicator	Number Career & Workforce Readiness (CWR) participants who have been employed for 12 months after receiving the	Number Career & Workforce Readiness (CWR) participants who have been employed for 12	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TBD	TBD	TBD	N/A	N/A	N/A	CWR program does not yet exist.	Number Career & Workforce Readiness (CWR) participants who have been employed for 12 months after receiving the training	
307	NA	A13	ETP-M1	1	Count	Research Prioritization	Metric	Number of TPMs initiated (gas and electric combined), including one technology-focused pilot (TFP) TPM *This	Number of TPMs initiated (gas and electric combined), including one technology-focused pilot	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM Implementers annually.	1) Technology priority maps (TPMs) are defined in the Business Plan 2) Technology-focused pilot: See ETP-M7	
308	NA	A13	ETP-M2	1	Count of TPMs	Research Prioritization	Metric	Number of TPMs updated *This number will be updated once all third party contracts have been awarded.	Number of TPMs updated	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM Implementers annually.	1) Technology priority maps (TPMs) are defined in the Business Plan	
309	NA	A13	ETP-M3	1	Count of Projects	Projects	Metric	Number of projects initiated *This number will be updated once all third party contracts have been awarded.	Number of projects initiated	Emerging Technologies (ET)	2016															Data for this metric will be gathered from 3P TPM Implementers annually.	1) Technology priority maps (TPMs) are defined in the Business Plan 2) Projects are considered "initiated" when project budget has been approved and funding allocated.	
310	NA	A13	ETP-M4	1	Count of Events	Outreach	Metric	Number of outreach events with technology developers with products <1 year from commercialization, including	Number of outreach events with technology developers with products <1 year from	Emerging Technologies (ET)	2016															Each ETP event will provide data for ETP-M4 and ETP-M5 simultaneously. **Data for this metric will be gathered from TPM Implementers annually based on methodology	1) "Technology developers" – Any organization or company that develops energy efficiency and demand response technology suitable for inclusion in PA incentive programs 2) "Events" – ET Summit, webinars, and in-person meetings, as	
311	NA	A13	ETP-M5	1	Count of Events	Outreach	Metric	Number of outreach events with technology developers with products <5 years from commercialization, including	Number of outreach events with technology developers with products <5 years from	Emerging Technologies (ET)	2016															Each ETP event will provide data for ETP-M4 and ETP-M5 simultaneously. **Data for this metric will be gathered from 3P TPM Implementers annually based on	1) "Technology developers" – Any organization or company that develops energy efficiency and demand response technology suitable for inclusion in PA incentive programs. 2) "Events" – ET Summit, webinars, and in-person meetings,	
312	NA	A14	ETP-M6	1	Count of TFPs	Pilots	Metric	Number of projects initiated with cooperation from other internal IOU programs associated with each Technology-	Number of projects initiated with cooperation from other internal IOU programs associated with each	Emerging Technologies (ET)	N/A															ETP-M6 metric is a subset of ETP-M7 and counted towards ETP-M7 targets. All targets will be determined by 3P TPM implementers.	1) "Cooperation" is defined as a process by which all parties work towards a mutual objective.	
313	NA	A14	ETP-M7	1	Count of TFPs	Pilots	Metric	Number of Technology-Focused Pilot (TFP) initiated as part of the TFP TPM. *This number will be updated once all	Number of Technology-Focused Pilot (TFP) initiated as part of the TFP TPM	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM Implementers annually.	1) A technology-focused pilot (TFP) will identify market barriers for a diverse range of high-impact technologies through studies, and subsequently breaking down identified barriers in collaboration with other relevant programs . 2)	
314	NA	A15	ETP-T1	1	Percent of New Measures	Measure Tracing	Metric	Prior year: % of new measures added to the portfolio that were previously ETP technologies *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new measures.	Prior year: % of new measures added to the portfolio that were previously ETP technologies	Emerging Technologies (ET)	N/A															Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractors. ED evaluators can make recommendations on what suitable targets would be. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP -T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.	
315	NA	A15	ETP-T2	1	Count of New Measures	Measure Tracing	Metric	Prior Year: # of new measures added to the portfolio that were previously ETP technologies. *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new measures.	Prior Year: # of new measures added to the portfolio that were previously ETP technologies	Emerging Technologies (ET)	N/A															Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP -T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.	
316	NA	A15	ETP-T3	1	Percent	Measure Tracing	Metric	Prior year: % of new codes or standards that were previously ETP technologies. *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new codes or standards.	Prior year: % of new codes or standards that were previously ETP technologies	Emerging Technologies (ET)	N/A															Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor.	ETP-T1 through ETP -T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.	
317	NA	A15	ETP-T4	1	Count	Measure Tracing	Metric	Prior Year: # of new codes and standards that were previously ETP technologies. *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new codes or standards.	Prior Year: # of new codes and standards that were previously ETP technologies	Emerging Technologies (ET)	N/A															Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then. PAs will work with ED to support matching ETP content to portfolio content.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.	

Table 17: Metrics Compliance Filing

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

Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievements	2018 Achievements	2019 Achievements	2018 Target	2019 Target	2020 Target	Mid Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	2020 Achievements	2020 Numerator	2020 Denominator	Methodology	Key Definitions	Proxy Explanation
318	NA	A15	ETP-T5a	1	Lifecycle net kW	Savings Tracing	Metric	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available. *The PAs believe this is not suited for a metric with targets because ETP is a non-resource program and does not claim any savings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	N/A															Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. ETP is a non-resource program and does not make savings claims.	
319	NA	A15	ETP-T5b	1	Lifecycle net kWh	Savings Tracing	Metric	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available. *The PAs believe this is not suited for a metric with targets because ETP is a non-resource program and does not claim any savings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	N/A															Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. ETP is a non-resource program and does not make savings claims.	
320	NA	A15	ETP-T5c	1	Lifecycle net Therms	Savings Tracing	Metric	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available. *The PAs believe this is not suited for a metric with targets because ETP is a non-resource program and does not claim any savings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	N/A															Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. ETP is a non-resource program and does not make savings claims.	
321	NA	A15	ETP-T6a	1	Count of project ideas by PA	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs	
322	NA	A15	ETP-T6b	1	Count of project ideas by national labs	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs	
323	NA	A15	ETP-T6c	1	Count of project ideas by manufacturers	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs	
324	NA	A15	ETP-T6d	1	Count of project ideas by entrepreneurs	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research	Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs	
325	NA	A15	ETP-T7a	1	Count of project ideas by PA	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research	ETP-T7a Number and source (as reported by submitter) of project ideas submitted AS PART OF	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs	
326	NA	A15	ETP-T7b	1	Count of project ideas by national labs	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs	
327	NA	A15	ETP-T7c	1	Count of project ideas by manufacturers	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs	
328	NA	A15	ETP-T7d	1	Count of project ideas by entrepreneurs	Project Idea Tracing	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research	Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs	
329	NA	A16	ETP-T8	1	Number of lists	Statewide Goal Alignment	Metric	List of ETP projects aligned with statewide goals that were initiated in the reporting year with specificity as to what	List of ETP projects aligned with statewide goals that were initiated in the reporting year with specificity	Emerging Technologies (ET)	N/A															Data for this metric will be gathered from 3P TPM implementers. An ETP project may align with multiple statewide goals and will be listed under each goal. **	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs	
329	NA	Statewide Goal Alignm	Metric	ETP-T8: List of	ETP-T8: List of ETP projects aligned with statewide goals that were initiated in the reporting year	Emerging Technologies (ET)																						
330	TCR	N/A	N/A	1	Count	Value	Metric	N/A	Number of Tri-County member jurisdictions r	Residential (RSF)	2020	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TBD	TBD	TBD	TBD	TBD	Share a report that provides jurisdiction-specific estimated GHG emission reductions from 3C-REN programs. Provide to jurisdictions with GHG emission reduction goals to inform Climate Action and Adaptation Plans (CAAP).		
331	TCR	N/A	N/A	1	Percentage	Value	Metric	N/A	Percentage of event 3C-REN attendees con	Codes & Standards (CS)	2021	TBD	h (HTR)	endees	N/A	N/A	N/A	N/A	N/A	N/A	TBD	TBD	N/A	N/A	N/A	From 3C-REN events, collect HTR criteria qualifiers from all attendees. Calculate the number of attendees considered HTR over the total number of attendees.		
332	TCR	N/A	N/A	1	Count	Value	Indicator	N/A	Number of jobs and economic value, inclusiv	Codes & Standards (CS)	2020	I/A - Indicator	ndicator	ndicator	N/A	N/A	N/A	N/A	N/A	N/A	TBD	TBD	N/A	N/A	N/A	Administer a survey after trainings and then six months and one year out. The questions asked will align with indicator.		
333	TCR	N/A	N/A	1	Percentage	Value	Metric	N/A	Percentage of event 3C-REN attendees con	Workforce Education and Training (WET)	2021	N/A	h (HTR)	endees	N/A	N/A	N/A	N/A	N/A	N/A	TBD	TBD	N/A	N/A	N/A	From 3C-REN events, collect HTR criteria qualifiers from all attendees. Calculate the number of attendees considered HTR over the total number of attendees.		
334	TCR	N/A	N/A	1	Count	Value	Indicator	N/A	Number of jobs and economic value, inclusiv	Workforce Education and Training (WET)	2020	I/A - Indicator	ndicator	ndicator	N/A	N/A	N/A	N/A	N/A	N/A	TBD	TBD	TBD	N/A	N/A	Administer a survey after trainings and then six months and one year out. The questions asked will align with indicator.		

Tri-County Regional Energy Network (3C-REN)

Advice Letter 8-E/7-G

2022-2023 BBAL

Attachment B

Supplemental Budget Information

Attachment B – Supplemental Budget Information

Background:

Decision (D.) 18-05-041 Ordering Paragraph 44 states:

> Beginning with the annual budget advice letters due on September 3, 2019, the program administrators must include updated budget estimates in the same format as the supplemental budget information filed in this proceeding on June 12, 2017.

Therefore, consistent with this Commission direction, this narrative and the accompanying Attachment A Tables 9 through 16, County of Ventura on behalf of the Tri-County Regional Energy Network (3C-REN) provides the following information in Attachment B.

DESCRIPTION OF 3C-REN IN-HOUSE EE ORGANIZATIONAL STRUCTURE & ASSOCIATED COSTS

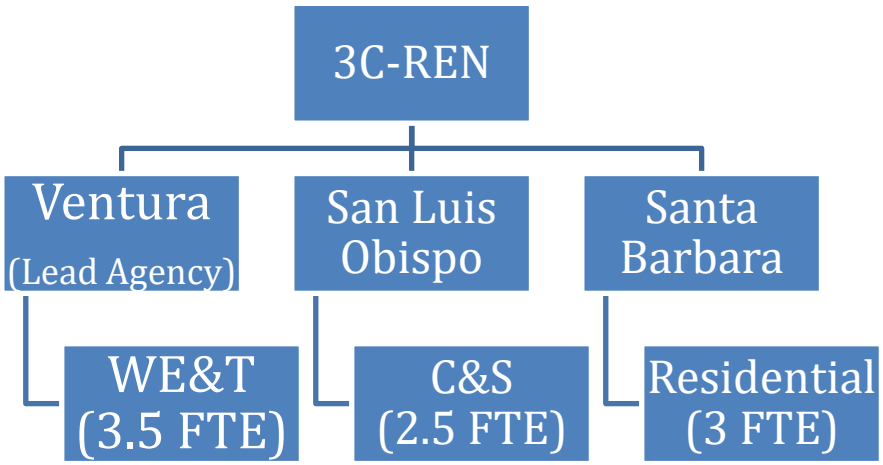
To the best of its ability, the County of Ventura, for 3C-REN, has provided requested budget information below in the format resulting from the stakeholder agreement in response to the TURN/PAO request for additional budget related information.

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

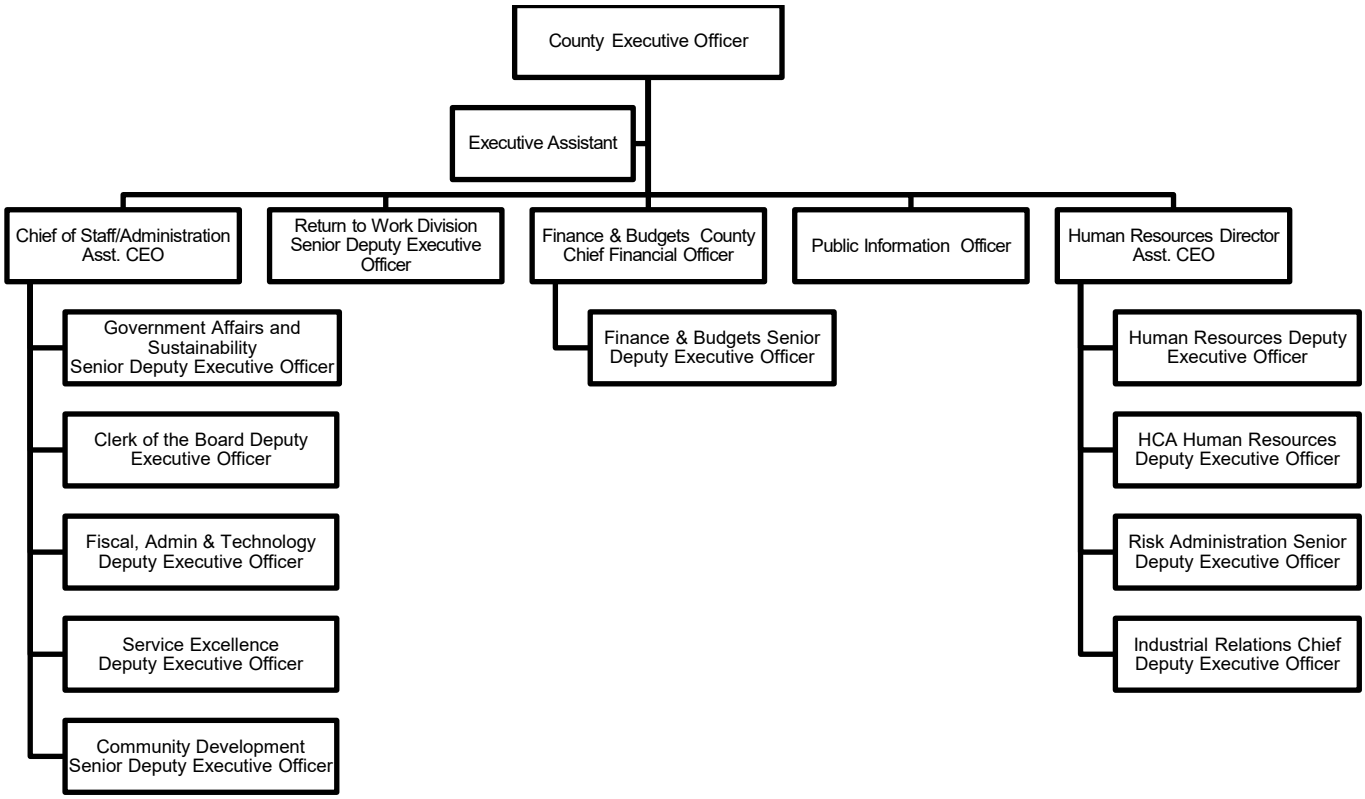
The County of Ventura is the lead agency in the administration of 3C-REN programs. As part of the Executive Office Team, staff has expertise working with Utilities as partners on several programs. Program design has been developed by the 3C-REN team in coordination with the utilities, in addition to using best practices already established by other REN programs and local government designed programs. Hence, program administration has been manageable and efficient; in addition, 3C-REN has utilized existing resources within our county government structure to assist with overall program design, implementation and management of contracts thereby allowing 3C-REN to be streamlined. Examples of applied resources include Ventura Procurement services, legal support from County Counsel, and fiscal oversight from the Auditor Controller, among others. In addition, 3C-REN also applies the expertise of Santa Barbara and San Luis Obispo counties and their knowledgeable staff who have extensive experience planning and implementing energy programs and working with utilities and other relevant stakeholders.

The following 3C-REN Organizational Chart shows administration and full-time equivalents (FTE). The County Executive Office (CEO) Organizational Chart reflects the potential management structure applicable to 3C-REN.

B. 3C-REN Energy Efficiency Management Structure and Organizational Chart



County of Ventura CEO Organizational Chart



3. Staffing needs are described further in section B and the forecasted cost is detailed in section C. These cost projections were determined using current rates for each position. Expected cost-drivers are outlined in section D.

Full Time Equivalents (FTE) assuming employees work a full time schedule of 1788 hours worked per year.

FTEs perform a variation of duties in two or more functional categories. Activities include regulatory filings, participation in proceedings, program management, managing of individual contracts, overall coordination with other PA's and any other needs to follow CPUC guidance. 3C-REN structured programs within the organizational structure above, all three counties work together to design and implement programs.

In addition, 3C-REN works with SoCalREN and BayREN and various other energy efficiency stakeholders to apply already established successful best practices in all the above functions creating a network of successful REN programs that provide uniform delivery practices and programs in all PA territories.

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 (2022-20223) or why it's impossible to predict beyond 2022, if that's the PA's position.

3C-REN has no consultants for "non program functions"

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

Expected cost drivers for in-house services are based on staffing needs and forecasting. Additional staff would drive higher in-house cost. Over the 2022-2023 program years, an estimated additional 0.5 FTE is anticipated and budgeted for.

6. Explanation of method for forecasting costs

Forecasted cost is based on the following:

- Past program implementation
- Program implementation solicitations
- Analysis of historical cost data

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

The functional groups for 3C-REN fit within the agreed template created through the PA's meet and confer process, however there are some categories that are not expected to be filled by FTE's and it

would be beneficial for the function to be outsourced to a sub-contractor or consultant. Functions Definitions are in ABAL Appendix. The table below shows FTE comparison for 2021 and 2022-2023.

3C-REN Projected FTE[1]

Functional Group	2020 EE Portfolio FTE (2)	2022 EE Portfolio FTE (2)	2023 EE Portfolio FTE (2)
Policy, Strategy, and Regulatory Reporting Compliance	0.9	1.0	1.0
Program Management	3.1	3.0	3.0
Engineering Services			
Customer Application/Rebate/Incentive Processing			
Customer Project Inspections		1.0	1.0
Portfolio Analytics (1)	2.4	2.5	2.5
EM&V			
ME&O (Local)			
Account Management / Sales			
IT	1.7	1.0	1.5
Call Center			
Total	8.0	8.5	9.0

FTEs perform a variation of duties in two or more functional categories. Activities include regulatory filings, participation in proceedings, program management, managing of individual contracts, overall coordination with other PA's and any other needs to follow CPUC guidance. 3C-REN structured programs within the organizational structure above, all three counties work together to design and implement programs.

In addition, 3C-REN works with SoCalREN and BayREN and various other energy efficiency stakeholders to apply already established successful best practices in all the above functions creating a network of successful REN programs that provide uniform delivery practices and programs in all PA territories.

D. Table showing costs by functional area of management structure

8. Expenses broken out into labor, non-labor O&M (with contract labor identified) (* Note, in case of conflict, excel budget template will control.)

3C-REN's response is provided in Attachment A – Tables 9 'Portfolio Summary', and Tables 10-16, containing budget request details and included at the end of this attachment.

9. Identify any capital costs

[1] This includes staffing for all three counties. Rows belonging to functional groups with no FTEs were deleted from the table in this narrative. The complete table can be seen in the ABAL Appendix Template uploaded to CEDARS.

3C-REN does not anticipate any capital costs and therefore does not include any in this budget request.

D. Table showing cost drivers across the EE organization

10. TURN and CAL PA like this example, taken from testimony PG&E's 2017 GRC addressing its Energy Procurement department.

Expected Cost Drivers for 2022-2023

3C-REN has launched programs and sub-programs in phases, each associated with a projected increase in offerings and customer participation. Program Delivery is considered a cost driver due to the expected increase in the number of EE projects, with the launch of the multifamily sub-program and the expected full delivery of single family sub program, after a slow start in 2020 due to the disruption and impacts of the COVID-19 pandemic. As program uptake increases and new sub-programs rollout, costs are expected to increase.

Overall program administration and management is also expected to be a significant cost driver with the scoping ruling directing all program administrators to file a new business plan in 2022.

The overall drivers of administrative costs include:

- The number of programs in the portfolio
- The number of participating agencies
- Procurement and contracting with expansion of portfolio and natural timeline for current programs
- Increased regulatory participation
- Meeting reporting requirements
- IT services

The drivers of implementation costs include:

- The number of participants in a program
- Processing of rebate applications
- Inspecting rebated/incentive measures
- Engineering related activities
- Measurement development
- Education and training of contractors/partners/customers
- Project management activities (i.e. Planning Scope of Work, working with
- contractors and customers, setting goals, reviewing goals, reacting to
- market conditions, and responding to customer inquiries (i.e. calls, emails,
- letters)
- Program planning, development and design
- Customer support
- Energy audits and continuous energy improvement
- Market transformation and long-term strategic plan support
- Compiling and maintaining information (i.e., data, customer records) for projects

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

11. 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.).

3C-REN as a non-IOU program administrator does not engage in EE vs GRC break outs of employees. 3C-REN staff time as well as consultant is billed to the portfolio budget as it directly supports administration, marketing, implementation and or evaluation, measurement and verification of 3C-REN portfolio activities.

The 3C-REN has no planned allocation of labor costs attributable to GRC functions and, the costs described are fully attributable to 3C-REN programs. Labor costs are fully loaded and are tracked at the project and/or activity level by all staff. Contract rates for County labor rates are calculated to provide for total cost recovery. Each County is treated as a separate cost center and a rate is established for each classification within each division in each County. General guidelines are used in determining all rates, and costs are easily traced to or associated with a specific job/ program. Only 3C-REN

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

3C-REN does not have EE balancing accounts and this therefore does not apply.

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

The EE functions but could potentially also do non-EE work are Administration positions.

15. 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 MCE and TURN, which was adopted in D.14-08-032.

N/A

16. 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?

All activities are coded so they are charged to their perspective programs

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

All activities are coded so they are charged to their perspective programs therefore only cost associated with EE are charged to EE programs.

II. BUDGET TABLES INCLUDING INFORMATION IDENTIFIED IN THE SCOPING MEMO

This section refers to the April 14, 2017 Scoping Memo and Ruling of Assigned Commissioner and Administrative Law Judges in A.17-01-003 et. al.

A. 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."

18. TURN and CAL PA 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.

3C-REN Response is provided in Attachment A – Table 7

B. 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."

19. TURN and CAL PA invite the PAs to propose a common table format for this information. We don't have anything specific in mind.

3C-REN Response is provided in Attachment A – Tables 11 through 16

20. Additionally, include a brief description of the method used by the PA to estimate the costs presented in the C.9 Table.

3C-REN tracks time per project or program so labor costs are estimated based on previous year actuals and have project any increase on planned program changes or hiring. In addition for non-labor costs are estimated using a historical baseline, with the incorporation of known program workplans for future years.

C. Attachment-A, Question C.10

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

21. TURN and CAL PA 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.

3C-REN does not administer Statewide programs

8. Expenses broken out into labor, non-labor O&M (with contract labor identified) (* Note, in case of conflict, excel budget template will control.)

The following table illustrates labor and non-labor cost for 2022-2023:

Residential Sector Labor and Non-labor Costs for 2022-2023[2]

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023EE Portfolio Budget
Residential	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$ 94,359.150	$ 138,726.000	$ 145,662.000
		Program Management	$ 154,084.410	$ 320,216.000	$ 336,232.000
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics	$ 95,289.700	$ 229,174.000	$ 240,614.000
		ME&O (Local)		$ 232,294.000	$ 243,901.000
		Account Management / Sales			
		IT	$ 70,571.320	$ 93,581.000	$ 98,260.000
		Call Center			
	Labor Total		**$ 414,304.580**	**$ 1,013,991.000**	**$ 1,064,669.000**
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)			
		Local/Government Partnerships Contracts (3)			
		Other Contracts			
		Program Implementation	$ 237,107.070	$ 1,378,410.000	$ 1,804,571.000
		Policy, Strategy, and Regulatory Reporting Compliance	$ 215,639.000	$ 112,500.000	$ 112,500.000
		Program Management			
		Engineering services			
		Customer Application/Rebate/Incentive Processing		$ 175,000.000	$ 175,000.000
		Customer Project Inspections			
		Portfolio Analytics	$ 29,413.820		
		ME&O (Local)	$ 92,588.430	$ 123,321.000	$ 127,333.000
		Account Management / Sales			
		IT (4)			
		Call Center			
		Facilities			
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	$ 2,000.000	$ 2,829,063.000	$ 5,095,937.270
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)			
	Non-Labor Total		**$ 576,748.320**	**$ 4,618,294.000**	**$ 7,315,341.270**
Residential Total			**$ 991,052.900**	**$ 5,632,285.000**	**$ 8,380,010.270**
	Other (collected through GRC) (2)	Labor Overheads			

[2] Rows with functional groups that have no expenditures have been deleted in the tables within this narrative. Complete tables can be found in the ABAL Appendix Template uploaded to CEDARS.

Cross-cutting Labor and Non-labor Costs for 2022-2023[3]

Sector	Cost Element	Functional Group	2020 EE Portfolio Expenditures	2022 EE Portfolio Budget	2023 EE Portfolio Budget
Cross-Cutting	Labor(1)	Policy, Strategy, and Regulatory Reporting Compliance	$ 94,359.150	$ 138,726.000	$ 145,662.000
		Program Management	$ 382,660.510	$ 237,639.000	$ 347,777.000
		Engineering services			
		Customer Application/Rebate/Incentive Processing			
		Customer Project Inspections			
		Portfolio Analytics	$ 298,054.010	$ 190,653.000	$ 200,179.000
		ME&O (Local)		$ 236,538.000	$ 241,074.000
		Account Management / Sales			
		IT	$ 169,979.900	$ 164,450.000	$ 150,113.000
		Call Center			
	Labor Total		**$ 945,053.570**	**$ 968,006.000**	**$ 1,084,805.000**
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)			
		Local/Government Partnerships Contracts (3)			
		Other Contracts			
		Program Implementation	$ 202,635.330	$ 596,283.000	$ 597,890.000
		Policy, Strategy, and Regulatory Reporting Compliance	$ 222,851.460	$ 222,740.000	$ 217,345.000
		Program Management	$ 219,041.070	$ 555,282.000	$ 571,890.000
		Engineering services			
		Customer Application/Rebate/Incentive Processing		$ 425,000.000	$ 425,000.000
		Customer Project Inspections			
		Portfolio Analytics	$ 28,321.520	$ 175,000.000	$ 175,000.000
		ME&O (Local)	$ 146,226.670	$ 287,780.000	$ 297,112.000
		Account Management / Sales			
		IT (4)		$ 425,000.000	$ 425,000.000
		Call Center			
		Facilities			
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs			
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)			
	Non-Labor Total		**$ 819,076.050**	**$ 2,687,085.000**	**$ 2,709,237.000**
Cross-Cutting Total (5)			**$ 1,764,129.620**	**$ 3,655,091.000**	**$ 3,794,042.000**
	Other (collected through GRC) (2)	Labor Overheads			

Overall labor costs are expected to be well balanced in all categories to deliver targeted outreach and engagement. With programs running for some time now more staff time will be focused pm program management and analytics and we evaluate and measure our programs.

[3] Rows with functional groups that have no expenditures have been deleted in the tables within this narrative. Complete tables can be found in the ABAL Appendix Template uploaded to CEDARS.

Non-labor costs focus on program delivery; energy coach service, workforce education and training instructors, quality control, marketing to local homeowners and contractors. These costs also include management of a robust data collection platform to evaluate program analytics/EM&V. Currently, customer data is collected by IOU service territory, rather than by County or region.

Tri-County Regional Energy Network (3C-REN)

Advice Letter 8-E/7-G

2022-2023 BBAL

Attachment C

CEDARS FILING SUBMISSION RECEIPT

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

PA: Tri-county Regional Energy Network (TCR)

Budget Filing Year: 2022

Submitted: 00:08:32 on 09 Nov 2021

By: Casey Connorton

Advice Letter Number: 8-E-7-G

* Portfolio Budget Filing Summary *

- TRC: 0.34
- PAC: 0.39
- TRC (no admin): 0.88
- PAC (no admin): 1.38
- RIM: 0.39
- Budget: $9,674,348.69
- TotalSystemBenefit: $3,697,287.74
- ElecBen: $2,378,361.06
- GasBen: $1,476,917.69
- OtherBen: $0.00
- TRCCost: $11,363,344.82
- PACCost: $9,769,052.92

* Programs Included in the Budget Filing *

- TCR-CS-001: Codes & Standards
- TCR-EMV-001: TCR EM&V;
- TCR-Res-002: Multifamily
- TCR-Res-003: Single Family NMEC
- TCR-WET-001: Workforce Education & Training

CEDARS FILING SUBMISSION RECEIPT

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

PA: Tri-county Regional Energy Network (TCR)

Budget Filing Year: 2023

Submitted: 00:09:08 on 09 Nov 2021

By: Casey Connorton

Advice Letter Number: 8-E-7-G

* Portfolio Budget Filing Summary *

- TRC: 0.42
- PAC: 0.47
- TRC (no admin): 0.92
- PAC (no admin): 1.23
- RIM: 0.47
- Budget: $12,681,304.44
- TotalSystemBenefit: $5,849,798.87
- ElecBen: $4,063,456.43
- GasBen: $1,966,896.05
- OtherBen: $0.00
- TRCCost: $14,482,922.28
- PACCost: $12,794,848.51

* Programs Included in the Budget Filing *

- TCR-CS-001: Codes & Standards
- TCR-EMV-001: TCR EM&V;
- TCR-Res-002: Multifamily
- TCR-Res-003: Single Family NMEC
- TCR-WET-001: Workforce Education & Training

Tri-County Regional Energy Network (3C-REN)

Advice Letter 8-E/7-G

2022-2023 BBAL

Attachment D

Proposed Portfolio Segmentation

Proposed Portfolio Segmentation

3C-REN Program ID	3C-REN Program Name	Primary Portfolio Segment	Supplementary Program Segment(s)	Justification
TCR-Res-002	Multifamily Sub-Program – Multifamily Home Energy Savings	Equity	• Market support • Resource acquisition	• Focuses on addressing whole building need of hard to reach building owners and renters • Incentives focused on GHG reductions and measures to encourage decarbonization
TCR-Res-003	Single Family Sub-Program – Home Energy Savings	Equity	• Market support • Resource acquisition	• Focuses on addressing needs of hard to reach single family (1-4) units • Provides tiered incentives and greater incentives for participants in disadvantaged communities for both end customers and contractors participating in the marketplace • Focus outreach to non-English speaking communities • Normalized meter energy consumption approach to savings ensures payment is made to participating contractors for actual savings delivered

3C-REN Program ID	3C-REN Program Name	Primary Portfolio Segment	Supplementary Program Segment(s)	Justification
TCR-CS-001	Codes and Standards – Energy Code Connect	Market Support	• Equity	• Focus on private and public sector trainings • One-on-one code compliance coaching and support
TCR-WET-001	Workforce, Education and Training	Market Support	• Equity	• Trainings provided to private and public sector audiences to perform quality energy efficiency projects • Special outreach conducted to workforce from hard to reach, disadvantaged communities and underserved populations