1	Californ	ia Public Utilities Commission	۱										
	ADVICE LETTER SUMMAR ENERGY UTILITY MUST BE COMPLETED BY UTILITY	(Attach additional pages as needed)											
	Company name/CPUC Utility No.: BayREN #941												
	Utility type: Co I ELC I GAS WATER Ph E-r	ontact Person: Jennifer Berg one #: 414-820-7947 mail: iberg@bavareametro.gov mail Disposition Notice to: [berg@bavareametro.gov											
	EXPLANATION OF UTILITY TYPE ELC = Electric GAS = Gas PLC = Pipeline HEAT = Heat WATER = Water Se	(Date Submitted / Received Stamp by CPUC) ptember 4, 2018											
	Advice Letter (AL) #: 9E	Tier Designation: 2											
	 Subject of AL: 2019 Annual Energy Efficiency Program and Portfolio Budget Request for the San Francisco Bay Area Regional Energy Network (BayREN). Keywords (choose from CPUC listing): Energy Efficiency; Compliance AL Type: Monthly Quarterly v Annual One-Time Other: If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.15-10-028; D.18-05-041. 												
1	Does AL replace a withdrawn or rejected AL? If so,	identify the prior AL: N/A											
	Summarize differences between the AL and the pr	ior withdrawn or rejected AL: N/A											
	Confidential treatment requested? Yes	No											
	If yes, specification of confidential information Confidential information will be made availan nondisclosure agreement. Name and contact access to confidential information:												
	Resolution required? Yes Vo												
	Requested effective date: 10/4/18	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 attachmen (residential, small commercial, large C/I, agricultur	nt in AL showing average rate effects on customer classes al, lighting).											
	Tariff schedules affected:												
	Service affected and changes proposed $^{\rm 1:}$ $_{N/A}$												
	Pending advice letters that revise the same tariff sh	neets: N/A											
	Discuss in AL if more space is peeded	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: <u>EDTariffUnit@cpuc.ca.gov</u>	Name: Gerald Lahr Title: Assistant Director - Energy Programs, MTC Utility Name: Address: 375 Beal Street, 7th Floor City: San Francisco State: California Telephone (xxx) xxx-xxxx: 415-820-7908 Facsimile (xxx) xxx-xxxx: Email: jlahr@bayareametro.gov
	Name: Title: Utility Name: Address: City: State: Wyoming Telephone (xxx) xxx-xxxx: Facsimile (xxx) xxx-xxxx: Email:



September 4, 2018

California Public Utilities Commission Energy Division Tariff Unit 505 Van Ness Ave. Fourth Floor San Francisco, CA 94102-3298 Advice Letter 9-E

(BayREN ID #941)

Subject:

BayREN 2019 Annual Energy Efficiency Program and Portfolio Budget Request

Purpose

The purpose of this advice filing is to seek approval for the 2019 Annual Energy Efficiency Program and Portfolio Budget request for the San Francisco Bay Area Regional Energy Network ("BayREN").

The BayREN is a collaboration of the nine counties that make up the San Francisco Bay Area. Led by the Association of Bay Area Governments¹, the BayREN implements effective energy saving programs on a regional level and draws on the expertise, experience, and proven track record of Bay Area local governments to develop and administer successful climate, resource, and sustainability programs. Since its inception, the BayREN has been addressing the three areas indicated by Decision 12-11-015 in the formation and implementation of programs: 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.

Background

In D. 14-10-046, the Commission approved the Rolling Portfolio funding, and provided that 2015 is "'year zero' insofar as we are leaving 2015 programs and funding in place until the earlier of when we provide superseding direction, or 2025."² In addition, funding for various financing programs, including BayREN's Multifamily Capital Advance Program ("BAMCAP"), was previously approved in D.13-09-044.³ REN funding for 2018 was articulated in D.16-08-019: "[E]xisting approved activities [of the RENs] may have ongoing funding that was previously approved."⁴ Recently, in D.18-05-041, BayREN's Business Plan and Budgets for the term of the Rolling Portfolio was approved with slight modifications.

¹ On July 1, 2017 ABAG underwent a staff consolidation with the Metropolitan Transportation Commission (MTC). ABAG and its Executive Board continue to exist and to implement programs, such as BayREN.

² D.14-10-046 at page 31.

³ D.13-09-044, Ordering Paragraph 22.

⁴ D.16-08-019 at page 10.

D.15-10-028 established that on the first business day in September, each PA will file a Tier 2 advice letter for continued collection of Energy Efficiency (EE) funding from ratepayers. This filing, which envisions ministerial review, is intended to formalize the Program Administrator's annualized budget which shall remain in place until superseded by Commission or Commission Staff action on the new budget.⁵ D.18-05-041 provided the required components of the Annual Budget Advice Letter (ABAL) and directed Program Administrators to file the 2019 ABAL by September 4, 2018.⁶

As directed by D.18-05-041 and additional guidance provided by Commission staff, BayREN has submitted via CEDARS-FM the 2019 BayREN Budget Filing Detail Report; the confirmation receipt is attached hereto as Attachment A.

Discussion

1. BayREN 2019 Budget Request

BayREN requests a total portfolio and Evaluation, Measurement and Verification ("EM&V") budget of 23,336,847. The budget breakdown by sector and the energy savings is provided in Table 1.

Table 1: BayREN 2019 Budget and Savings⁷

		-	EN FOREC	
		ENERG	GY SAVING	S (Net)
		Forecast	Forecast	Forecast
Sector	2019 Program Year Budget	kWh	kW	therms (MM)
Residential	\$18,591,913	1,738,594	384	0.22
Commercial	\$2,713,832	820,530	656	0.01
Industrial				
Agriculture				
Emerging Tech				
Public				
Codes and Standards	\$1,766,730	N/A	N/A	N/A
WE&T				
Finance				
OBF Loan Pool				
Subtotal	\$23,072,475	2,559,124	1,041	0.23
PA EM&V ¹	\$264,372			
Total PA PY Spending Budget ²	\$23,336,847			
Uncommitted and Unspent Carryover balance ³	TBD			
Total PA PY Budget Recovery Request ⁴	\$23,336,847			
Authorized PY Budget Cap (D.18-05-041)	\$23,950,000			
Forecast PY TRC	0.22			
Forecast PY PAC	0.25			

⁵ D.15-10-028, at pages 59-60.

⁶ D.18-04-041, pp 123-129.

⁷ Program Administrators received guidance from Energy Division to not update the ABAL tables. The Residential sector includes BayREN's Water/Energy Nexus program, which is a cross-cutting program, only because of this guidance. The Water/Energy Nexus program is defined as a cross-cutting program in CEDARS.

Table 1 Notes:

- ¹ BayREN's portion of the total EM&V budget amount of \$961,353, which is the 27.5 percent split.
- ² Total proposed program year budget spending, including uncommitted unspent carryover.
- ³ The balance of unspent uncommitted must reflect the total unspent uncommitted starting January 1, 2018 through December 31 of current year (PY-1). Because each ABAL is filed in Q3, this unspent uncommitted amount will be an estimate for the year in which the ABAL is filed.
- ⁴ Amount of funds to be collected for the Program Year Line 18 less Line 19.

Table 2: BayREN's Annual Rolling Portfolio Budget Forecast True-Up

		Ta	ble 2: BayRl	EN Annual R	olling Portfoli	o Budget For	ecast - True-	Up	
Sector	2018 1	2019	2020	2021	2022	2023	2024	2025	Total
Residential	\$14,771,780	\$18,591,913	\$18,487,479	\$17,020,547	\$16,904,743	\$16,500,387	\$17,834,401	\$17,713,181	\$137,824,431
Commercial		\$2,713,832	\$3,246,473	\$3,572,306	\$3,980,158	\$4,525,331	\$4,665,108	\$5,104,067	\$27,807,276
Industrial									
Agriculture									
Emerging Tech									
Public									
Codes and Standards	\$1,660,370	\$1,766,730	\$1,928,700	\$2,103,700	\$2,283,200	\$2,461,700	\$2,641,100	\$2,820,400	\$17,665,900
WE&T									
Finance	\$2,515,712								\$2,515,712
OBF Loan Pool									
Subtotal	\$18,947,862	\$23,072,475	\$23,662,652	\$22,696,553	\$23,168,101	\$23,487,418	\$25,140,609	\$25,637,648	\$185,813,319
EM&V	\$257,755	\$264,372	\$271,135	\$260,065	\$265,468	\$269,127	\$288,069	\$293,765	\$2,169,755
Total Portfolio Program Year BayREN Budget	\$19,205,617	\$23,336,847	\$23,933,787	\$22,956,618	\$23,433,569	\$23,756,545	\$25,428,679	\$25,931,413	\$187,983,074
Total Authorized Portfolio PY Budget Cap	\$22,738,000	\$23,950,000	\$24,615,000	\$23,216,000	\$23,720,000	\$24,605,000	\$24,629,000	\$25,503,000	\$192,976,000
Forecast Portfolio PY TRC	0.25	0.22	0.28	0.31	0.34	0.38	0.47	0.49	0.35
Forecast Portfolio PY PAC	0.43	0.25	0.31	0.33	0.37	0.43	0.55	0.57	0.39

¹ "Reset" 2018 budget at or below 2018 annual budget approved in Business plan Decision. "True-up" years 2019-2025.

BayREN's portfolio savings forecast true-up is provided in Tables 3, 4 and 5 below.

Table 3: Annual Rolling Portfolio Savings Forecast True-Up (Net kWh)

	Table	e 3: Annual H	Rolling Portfo	olio Savings	Forecast - T	rue-up (Net l	kWh)	
Sector	2018	2019	2020	2021	2022	2023	2024	2025
Residential	2,687,839	1,738,594	1,937,532	1,690,107	1,802,022	1,914,702	2,399,505	2,399,505
Commercial	N/A	820,530	1,322,385	1,512,230	1,863,897	2,124,296	2,342,852	2,600,805
Industrial								
Agriculture								
Emerging Tech								
Public								
Codes and Standards	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WE&T								
Finance	N/A							
OBF Loan Pool								
Total Forecast Portfolio Savings	2,687,839	2,559,124	3,259,917	3,202,337	3,665,919	4,038,997	4,742,357	5,000,310
CPUC Goal*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% of Goal*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Not applicable to CCA/REN as of 2018, in template for future ABAL when applicable

	Table 4:	Annual Ro	lling Portfo	olio Savings	Forecast -	True-up (N	Net kW)	
Sector	2018	2019	2020	2021	2022	2023	2024	2025
Residential	1,172	384	365	312	346	380	595	595
Commercial	N/A	656	529	605	746	850	937	1,040
Industrial								
Agriculture								
Emerging Tech								
Public								
Codes and Standards	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WE&T								
Finance	N/A							
OBF Loan Pool								
Total Forecast Portfolio Savings	1,172	1,041	894	917	1,091	1,229	1,533	1,636
CPUC Goal*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% of Goal*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

 Table 4: Annual Rolling Portfolio Savings Forecast True-Up (Net kW)

* Not applicable to CCA/REN as of 2018, in template for future ABAL when applicable

	Table 5: A	Annual Roll	ing Portfoli	o Savings I	Forecast - T	True-up (Ne	et therms)	
Sector	2018	2019	2020	2021	2022	2023	2024	2025
Residential	304,917	218,663	242,202	228,035	247,029	287,468	443,345	443,345
Commercial	N/A	11,801	23,631	25,964	30,613	33,731	35,050	35,874
Industrial								
Agriculture								
Emerging Tech								
Public								
Codes and Standards	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WE&T								
Finance	N/A							
OBF Loan Pool								
Total Forecast Portfolio Savings	304,917	230,464	265,833	253,999	277,642	321,199	478,395	479,219
CPUC Goal*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% of Goal*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

 Table 5: Annual Rolling Portfolio Savings Forecast True-Up (Net therms)

* Not applicable to CCA/REN as of 2018, in template for future ABAL when applicable

2. Discussion of Proposed Program and Portfolio Changes

Except as discussed below, the BayREN portfolio of programs will remain primarily the same as 2018 offerings with an increase in current activities consistent with the slight increase in program budgets. Two programs, Single Family and Commercial, will be revised to more closely align with the criteria established in D.12-11-005.

Single Family

BayREN will redesign the Single Family program by offering holistic solutions to both homeowners and renters to save energy, while also improving comfort and occupant health. The new program will focus on lower to middle income⁸ homeowners and renters in the Bay Area, a population that is consistently underrepresented in ratepayer energy efficiency programs in our territory as well as across the state. We will phase out implementation of Home Upgrade starting in Q1 2019. While Home Upgrade has allowed for deeper savings, the average project cost of approximately \$15,000 is cost prohibitive for many in our targeted income group. Home Upgrade also does not address the 32% of the Bay Area renter population within the middle income group. The program design will rely on the findings of the BayREN Single Family Moderate Income Market Characterization Study (scheduled to be complete by September 2018), so that the barriers of entry and the identified priorities of this market will be adequately addressed in the revised program.

The key approach to the offering is to fill the gap and to meet the lower to middle-income customer where they are. This will be done by offering incremental and affordable energy efficiency measures that are better aligned with their needs than are current energy efficiency programs. BayREN will offer a wide range of measures to its customers (both homeowners and renters) to achieve deep savings over the multiyear life of the program. The measures will range from low cost/no cost self-install measures to expensive professionally installed measures, allowing customers more flexibility and control over the project. Meter-based performance incentives will also be offered to the customer to facilitate implementation of energy management type measures. These proposed changes will allow for more realized savings with smaller entry-point improvements while also continuing to promote deeper savings through a whole-house approach.

Contractors and Community Based Organizations (CBOs) partnerships will be developed and/or enhanced to scale customer participation. BayREN will offer trainings to contractors on workforce standards (in conjunction with and coordination with the statewide Workforce Education and Training activities). BayREN will also help to expand specialty contractors' services to full building performance and/or partner with other firms to achieve a better business model that supports deeper whole house upgrades. One key program objective is to get the homeowner on an incremental path to achieve Zero Net Energy by phasing in new measures as they are feasible and providing education along the way.

An integral part of the implementation of the current and new single family program is the Home Energy Advisor service. Advisors assist both homeowners and renters and maintain contact with the customers after they have assisted with the initial contact in order to see the customer through a full energy-efficiency journey until the customer has reached ZNE. The Advisors also assist contractors with understanding program requirements and when needed, help mediate issues that may arise with the property owners. Advisors will refer customers to complementary programs offered by utilities and other organizations and help customers understand their financing options.

⁸ Households with annual income range of 48,000 - 125,000.

Like all of BayREN programs, outreach will continue to be done primarily by local governments, who are seen as trusted messengers. This also allows for the seamless layering of other climate programs and activities. Local governments will also reach out to local CBOs to better understand specific target audience and provide custom solutions to the community.

Commercial

The BayREN SMB Commercial program is designed to empower building owners to take a holistic and longer-term approach in incorporating energy efficiency within their buildings. Applicants in the nine county area will receive whole building technical analysis, attractive financing options, and ongoing project support from a network of qualified industry partners and trusted local government partnerships.

BayREN recognizes that whole-building retrofit projects can be complex and costly, so we intend to meet SMB owners where they are and break down market barriers when possible:

- Our dual pathway approach will assure that each customer receives the level of support that suits their needs. Each project will be resourced with a Building Performance Advisor, who can offer a range of advisory services to busy customers, their contractors, and service providers.
- The program will first identify "low-hanging fruit," by leveraging existing, complementary energy efficiency and financing program opportunities. Next, it will identify custom measures, with a focus on HVAC improvements, and provide "Pay-for-Performance" incentives based on actual, metered savings.
- Prospective partners will be vetted and selected by the program via a non-competitive Request for Qualifications. Preference will be given to partners who can absorb some or all of the project performance risk on the customer's behalf.

Financial incentives will be available, with 50% of the incentive paid up front based on modeled savings, and the remaining 50% tied to actual metered performance after one year. Other financing options that will be promoted will be Commercial PACE, and the current Microloan product offered in three of the BayREN counties will expanded throughout our territory.

A fundamental feature of the Subprogram is "program layering" via referrals to complimentary EE and financing programs (e.g. PG&E's offerings) to harvest deeper energy savings. Program layering serves not only to amplify the Subprogram's ability to develop comprehensive projects with a small budget, but also helps other utility programs achieve the 5% small commercial penetration target in D.18-05-014.

3. Strategies for increased cost-effectiveness

Given BayREN's directive to focus on filling gaps, piloting different or unique approaches that have the potential to scale and/or targeting hard-to-reach customers, we are not held to a particular cost-effectiveness threshold. However, we do strive to be more cost-effective and will utilize new strategies in 2019 to help our savings. BayREN has three resource programs. Strategies for increasing the cost effectiveness of these programs in 2019 are:

1. Single Family

New innovative tools and approaches will be introduced to scale up participation while improving cost effectiveness. New measures and methods for savings calculations will used, as well as a meter based performance incentive. Customer participation will be scaled by leveraging existing customer relationships and partnerships with community-based organizations, rather than starting from scratch. These new approaches will result in greater realized savings for smaller entry-point improvements while continuing to promote a whole-house approach. BayREN will continue to support a long-term customer

journey that will effectively reduce the cost of customer acquisition while driving deeper energy savings over time.

There is a drop in the energy savings for this program from 2018 to 2019, in large part due to the change in program with 2019 being the beginning of the ramp up. Under the new program design, most new participants will be undertaking simpler, lower cost measures at the outset of their energy efficiency journey. We thus forecast only 450 Home Upgrade type projects in 2019, amounting to 167 net kW. The other measures forecasted to be implemented in 2019, while numerous, have a much lower average kW-savings/measure. In fact, the weighted average of the other measures is <0.001 net kW per unit and 102 kW overall.

Some of the new program measures will produce substantial kW savings, notably high performance windows and efficient AC/heat pump. However, the number of such measures expected to be implemented in the early years of the new program is relatively small. It is also worth noting, that those measures still claim less than ½ of the kW savings as the typical Home Upgrade package. However, we have seen in the Home Upgrade impact evaluations that the realization rate on kW savings is very low. So, as savings ramp up with the new program measures based on their different savings estimation methodologies, we anticipate more kW over time, with better realization rates.

With a continued focus on improving cost effectiveness, we anticipate greater energy savings following the early ramp of year of 2019.

2. Multifamily

As detailed in the Business Plan, steps will be taken to continue streamlining the participation process, phase out rebates over time and replacing them with other market drivers. For immediate next steps, we are creating a pathway for a market of raters to be able to provide technical assistance at a lower cost than the program-provided technical assistance. This means also introducing our simplified property assessment process and modeling tools to a broader set of users in the industry. These changes should all reduce the total cost of going through an energy upgrade.

While we are using the same kW savings per unit (0.03kW) in 2018 and 2019, there is a drop in overall net savings. This is due to there being 450 more units in 2018 than in 2019. A more significant explanation is that for 2019, we reduced the NTG ratio from 0.85 to 0.70, which impacts the net savings.⁹

3. Commercial

A significant portion of customer incentives will be tied to metered-verified savings. This will help to ensure that incentives are actually going towards energy savings. As designed, many of the traditional implementation tasks will be performed by program partners and/or contractors, thereby reducing implementation expenditures. Additionally, there will be dual enrollment pathways that will allow for program layering.

4. Metrics

Per D.18-05-041, Ordering Paragraphs 9 and 11, the metrics, targets and indicators for BayREN's program portfolio, and for the specific programs, were filed and served to the service list of A.17-01-013, et. al. on August 6, 2018. Pursuant to Energy Division direction, attached hereto as Attachment B is 2017 metrics for BayREN's programs.

⁹ The reduction in Net savings is not a one-to-one ratio with the NTG values.

5. Program Implementation Plans/Implementation Plans

BayREN has uploaded to CEDARS revised redlined and clean versions of the Program Implementation Plans (PIPs) for Codes and Standards, Multifamily, and Water Bill Savings Program. The changes were minor and primarily reflect the changes in program budgets as approved in the Business Plan. BayREN will submit Implementation Plans (IPs) for the Single Family and Commercial programs during the time line prescribed in D.18-05-041. Similarly, an IP will be submitted for Green Labeling, which had previously been part of the single family program, but is now a standalone program as approved in the Business Plan.

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, or September 24, 2018. 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 <u>EDTariffUnit@cpuc.ca.gov</u>. 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.

Gerald Lahr Assistant Director - Energy Programs Association of Bay Area Governments 375 Beale Street 7th Floor San Francisco, CA 94105 JLahr@bayareametro.gov

Effective Date

BayREN requests that this Tier 2 advice filing become effective on regular notice, October 4, 2018, 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 parties shown on the attached list and the parties on the service list for R.13-11-005. Address changes to the General Order 96-B service list should be directed to Jennifer K. Berg at jberg@bayareametro.gov or by calling 415-820-7947.

Jeral Lafr

Gerald L. Lahr Assistant Director – Energy Programs

Attachment: A: CEDARS Filing Submission Receipt B: BayREN 2017 Metrics ATTACHMENT A TO BAYREN AL-9-E

CEDARS FILING SUBMISSION RECEIPT

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

PA: Bay Area Regional Energy Network (BAY)

Filing Year: 2019

Submitted: 09:56:14 on 04 Sep 2018

By: Qua Vallery

Advice Letter Number: 9-E

* Portfolio Filing Summary *

- TRC: 0.2223
- PAC: 0.254
- TRC (no admin): 0.4719
- PAC (no admin): 0.6423
- RIM: 0.254
- Budget: \$23,336,847.11
- * Programs Included in the Filing *
- BAYREN02: Multi Family
- BAYREN03: Codes and Standards Program
- BAYREN04: Water/Energy Nexus
- BAYREN05-A: Evaluation Measurement and Verification BAYREN
- BAYREN06: Commercial
- BAYREN07: Green Labeling
- BAYREN08: Single Family

ATTACHMENT B TO BAYREN AL-9-E

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t Index	ΡΑ	AttA Page		Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year		2017 r Numerator	2017 Denominator	BayREN Notes, assumptions, methodology	Data Source	Methodology	,
											1001					CEDARS Online CET Ouput	Per CEDARS	
0	BayREN	A03	PL1	G	MT CO2eq	GHG	Metric	RSF2-G∙•Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis∙•		l Portfolio Level (PL)– All Sectors	2016	1,171	N/A	N/A				
																CEDARS Online CET Ouput	Per CEDARS	
1	BayREN	A02	PL1	S1	First year annual kW gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	First year annual kW gross	Portfolio Level (PL)– All Sectors	2016	1,589	N/A	N/A				
																CEDARS Online CET Ouput	Per CEDARS	
2	BayREN	A02	PL1	S1	First year annual kW net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	First year annual kW net	Portfolio Level (PL)– All Sectors	2016	1,311	N/A	N/A				
																CEDARS Online CET Ouput	Per CEDARS	
3	BayREN	A02	PL1	S1	First year annual kWh gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	First year annual kWh gross	Portfolio Level (PL)– All Sectors	2016	2,720,630	N/A	N/A				
																CEDARS Online CET Ouput	Per CEDARS	
4	BayREN	A02	PL1	S1	First year annual kWh ne	S1: Energy t Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	First year annual kWh net	Portfolio Level (PL)– All Sectors	2016	2,370,542	N/A	N/A				
																CEDARS Online CET Ouput	Per CEDARS	
5	BayREN	A02	PL1	\$1	First year annual Therm gross	S1: Energy Savings	Metric	PL1-S1- 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 S Sectors	2016	277,123	N/A	N/A				
																CEDARS Online CET Ouput	Per CEDARS	
6	BayREN	A02	PL1	S1	First year annual Therm net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	First year annual Therm net	Portfolio Level (PL)– All Sectors	2016	228,707	N/A	N/A				
																CEDARS Online CET Ouput	Per CEDARS	
7	BayREN	A02	PL1	S1	Lifecycle ex- ante kW gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	Lifecycle ex-ante kW gross	Portfolio Level (PL)– All Sectors	2016	24,321	N/A	N/A				

ology	Key Definitions	Proxy Explan ation
ARS	None	
ARS	None	
ARS	None	

dshee t Index P		AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 <u>Reporting Year</u>	2017 Numerator	2017 Denominator	r BayREN Notes, assumptions, methodology	Data Source	Methodology
8 Bayl	/REN	A02	PL1	S1	Lifecycle ex- ante kW net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	Lifecycle ex-ante kW net	Portfolio Level (PL)– All Sectors	2016	18,788	N/A	N/A		CEDARS Online CET Ouput	Per CEDARS
9 Bayl	/REN	A02	PL1	S1	Lifecycle ex- ante kWh gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	Lifecycle ex-ante kWh gross	Portfolio Level (PL)– All Sectors	2016	2,720,630	N/A	N/A		CEDARS Online CET Ouput	Per CEDARS
10 Bayl	/REN	A02	PL1	S1	Lifecycle ex- ante kWh net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	Lifecycle ex-ante kWh net	Portfolio Level (PL)– All Sectors	2016	28,824,445	N/A	N/A		CEDARS Online CET Ouput	Per CEDARS
11 Bayl	/REN	A02	PL1	S1	Lifecycle ex- ante Therm gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	Lifecycle ex-ante Therm gross	Portfolio Level (PL)– All Sectors	2016	4,105,390	N/A	N/A		CEDARS Online CET Ouput	Per CEDARS
12 Bayl	/REN	A02	PL1	S1	Lifecycle ex- ante Therm net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)••	Lifecycle ex-ante Therm net	Portfolio Level (PL)– All Sectors	2016	3,379,571	N/A	N/A		CEDARS Online CET Ouput	Per CEDARS
13 Bayl	/REN	A02	PL2	S3	First year annual kW gross	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	First year annual kW gross in Disadvantaged Communities		2016	41.65	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases
14 Bayl	/REN	A02	PL2	\$3	First year annual kW net	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	First year annual kW net in Disadvantaged Communities		2016	40.38	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases
15 Bayl	/REN	A02	PL2	\$3	First year annual kWh gross	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	First year annual kWh gross in Disadvantaged Communities		2016	275,058	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases

	Proxy Explan
Key Definitions	ation
None	
None	
None	
None	
None	
D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 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.	
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dshee t Index	ΡΑ	AttA Page		Metho Code			etric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Year	2017 Numerator	2017 Denominator	BayREN Notes, assumptions, methodology	Data Source	Methodology	Key Definitions	Proxy Explan ation
16	BayREN	A02	PL2	53	First yea annual kWh		53: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	First year annual kWh net in Por Disadvantaged Communities	tfolio Level (PL)– All Sectors	2016	247,552	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3. scores.	s
17	BayREN	A02	PL2	\$3	First yea annual The gross	orm S	53: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	First year annual Therm gross Por in Disadvantaged Communities	tfolio Level (PL)– All Sectors	l 2016	17,387	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3. scores.	s
18	BayREN	A02	PL2	\$3	First yea annual The net	erm S.	53: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	First year annual Therm net in Por Disadvantaged Communities	tfolio Level (PL)– All Sectors	l 2016	15,649	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3. scores.	s
19	BayREN	A02	PL2	\$3	Lifecycle e ante kW gr		53: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	Lifecycle ex-ante kW gross in Por Disadvantaged Communities	tfolio Level (PL)– All Sectors	l 2016	548	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3. scores.	s
20	BayREN	A02	PL2	\$3	Lifecycle e ante kW n		53: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	Lifecycle ex-ante kW net in Por Disadvantaged Communities	tfolio Level (PL)– All Sectors	l 2016	466	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3. scores.	s
21	BayREN	A02	PL2	\$3	Lifecycle e ante kWh g		53: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	Lifecycle ex-ante kWh gross in Por Disadvantaged Communities	tfolio Level (PL)– All Sectors	2016	3,484,979	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3. scores.	s
22	BayREN	A02	PL2	\$3	Lifecycle e ante kWh i		53: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••		tfolio Level (PL)– All Sectors	l 2016	3,136,481	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3. scores.	s
23	BayREN	A02	PL2	\$3	Lifecycle e ante Ther gross	m S.	53: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	Lifecycle ex-ante Therm gross Por in Disadvantaged Communities	tfolio Level (PL)– All Sectors	l 2016	250,440	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3. scores.	s

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t		AttA					Metric/		N 4 - 4 - 4 - 4	Contan	Baseline		2017	2017		Data Causa			Explan
Inde	<u>ex PA</u>	Page	e Ordei	rCode	Measureme	nt <u>Metric Typ</u>	e Indicator	Business Plan Att A Description	Metric	Sector	Year	Reporting Year	Numerator	Denominator	BayREN Notes, assumptions, methodology % of DAC savings for MF + SF	Data Source CEDARS Online CET Ouput	Methodology Data pull from PA databases	Key Definitions D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts	
16	BayRE	N A02	PL2	S3	First year annual kWh	S3: DAC net Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	d First year annual kWh net in Po Disadvantaged Communities	ortfolio Level (PL)– All Sectors	2016	247,552	N/A	N/A				in the top quartile of CalEnviroScreen 3.0 scores.	J
17	BayRE	N A02	PL2	\$3	First year annual Ther gross	S3: DAC m Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	d First year annual Therm gross Po in Disadvantaged Communities	ortfolio Level (PL)– All Sectors	2016	17,387	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
18	BayRE	N A02	PL2	\$3	First year annual Ther net	S3: DAC m Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	d First year annual Therm net in Po Disadvantaged Communities	ortfolio Level (PL)– All Sectors	2016	15,649	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
19	BayRE	N A02	PL2	S3	Lifecycle ex ante kW gro		Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	d Lifecycle ex-ante kW gross in Po Disadvantaged Communities	ortfolio Level (PL)– All Sectors	2016	548	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
20	BayRE	N A02	PL2	\$3	Lifecycle ex ante kW ne		Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	d Lifecycle ex-ante kW net in Po Disadvantaged Communities	ortfolio Level (PL)– All Sectors	2016	466	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
21	BayRE	N A02	PL2	\$3	Lifecycle ex ante kWh gro		Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	d Lifecycle ex-ante kWh gross in Po Disadvantaged Communities	ortfolio Level (PL)– All Sectors	2016	3,484,979	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
22	BayRE	N A02	PL2	53	Lifecycle ex ante kWh n	- S3: DAC et Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••		ortfolio Level (PL)– All Sectors	2016	3,136,481	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
23	BayRE	N A02	PL2	\$3	Lifecycle ex ante Thern gross	53° DA(Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	d Lifecycle ex-ante Therm gross Po in Disadvantaged Communities	ortfolio Level (PL)– All Sectors	2016	250,440	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	

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t		AttA	AttA	Method	l Units of		Metric/				Baseline	2017	2017	2017			
Index	K PA	Page	Orde	r Code	Measuremen	t Metric Type	Indicator	Business Plan Att A Description	Metric	Sector	Year	Reporting Year	Numerator	Denominator	BayREN Notes, assumptions, methodology	Data Source	Methodology
24	BayREN	A02	PL2	S3	Lifecycle ex- ante Therm ne		Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities••	Lifecycle ex-ante Therm net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	225,396	N/A	N/A	% of DAC savings for MF + SF	CEDARS Online CET Ouput	Data pull from PA databases
25	BayREN	A02	PL3	S4	First year annual kW gross	S4: Hard to reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	First year annual kW gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases
26	BayREN	A02	PL3	S4	First year annual kW ne	S4: Hard to reach t markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	First year annual kW net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases
27	BayREN	A02	PL3	S4	First year annual kWh gross	S4: Hard to reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	First year annual kWh gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A	Lifecycle DAC= ((% of DAC Savings MF * YearX_Lifecycle Savings MF) (% of DAC Savings SF * YearX_Lifecycle Savings SF)) Lifecycle HTR = ((% of HTR Savings COM * YearX_Lifecycle Savings COM) + (% of HTR Savings SF * YearX_Lifecycle Savings SF))	+ CEDARS Online CET Ouput	Data pull from PA databases
28	BayREN	A02	PL3	S4	First year annual kWh n	S4: Hard to reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	First year annual kWh net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A	Lifecycle DAC= ((% of DAC Savings MF * YearX_Lifecycle Savings MF) (% of DAC Savings SF * YearX_Lifecycle Savings SF)) Lifecycle HTR = ((% of HTR Savings COM * YearX_Lifecycle Savings COM) + (% of HTR Savings SF * YearX_Lifecycle Savings SF))	+ CEDARS Online CET Ouput	Data pull from PA databases
29	BayREN	A02	PL3	S4	First year annual Thern gross	S4: Hard to n reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	First year annual Therm gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases
30	BayREN	A02	PL3	S4	First year annual Thern net	S4: Hard to n reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••			2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases
31	BayREN	A02	PL3	S4	Lifecycle ex- ante kW gros	reach	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	Lifecycle ex-ante kW gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases

	Proxy
	Explan
Key Definitions	ation
D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
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."	
D.18-05-041 p. 43 - HTR as defined in	
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D.18-05-041 p. 43 - HTR as defined in	
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D.18-05-041 p. 43 - HTR as defined in	
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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."	
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32 BayR	EN A02	PL3	54		ycle ex- kW net	S4: Hard to reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	Lifecycle ex-ante kW net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases	D.1 Re: dis de: crit
33 BayR	EN AO2	PL3	S4		ycle ex- Wh gross	S4: Hard to reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	Lifecycle ex-ante kWh gross in Hard-to-Reach Markets	n Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases	D.1 Re: dis de: crit
34 BayR	EN AO2	PL3	54		ycle ex- ‹Wh net	S4: Hard to reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	Lifecycle ex-ante kWh net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases	D.1 Res dis des crit
35 BayR	EN A02	PL3	S4	ante	ycle ex- Therm ross	S4: Hard to reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	Lifecycle ex-ante Therm gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases	D.1 Re: dis de: crit
36 BayR	EN AO2	PL3	S4		ycle ex- herm net	S4: Hard to reach markets	Metric	PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets••	Lifecycle ex-ante Therm net in Hard-to-Reach Markets	n Portfolio Level (PL)– All Sectors	2016	0	N/A	N/A		CEDARS Online CET Ouput	Data pull from PA databases	D.: Re dis de cri
37 BayR	EN A02	PL4	LC		evelized (\$/kW)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	PAC Levelized Cost (\$/kW)	Portfolio Level (PL)– All Sectors	2016	\$415.57	N/A	N/A	Calculated from CET Outputs (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW	CEDARS Online CET Ouput	Per CEDARS	No
38 BayR	EN A02	PL4	LC			Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	PAC Levelized Cost (\$/kWh)	Portfolio Level (PL)– All Sectors	2016	\$0.35	N/A	N/A	Using CET Outputs and formula (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh	CEDARS Online CET Ouput	Per CEDARS	No
39 BayR	EN AO2	PL4	LC		evelized \$/therm)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	PAC Levelized Cost (\$/therm)	Portfolio Level (PL)– All Sectors	2016	\$1.31	N/A	N/A	Using CET Outputs and formula (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm	CEDARS Online CET Ouput	Per CEDARS	No

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	Explan
Key Definitions	ation
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."	
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."	
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."	
criteria for hard to reach customers.	
D.18-05-041 p. 43 - HTR as defined in	
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disadvantaged communities (as	
designated by CalEPA) in the geographic	
criteria for hard to reach customers."	
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."	
None	
None	
None	
None	
None	

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t		AttA	AttA	Method	Units of		Metric/				Baseline	2017	2017	2017				
Index	<u>A PA</u>	Page	Order	Code	Measurement	Metric Type	Indicator	Business Plan Att A Description	Metric	Sector	Year	Reporting Year	Numerator	Denominator		Data Source	Methodology	Key Definitions
40	BayREN	A02	PL4	LC	TRC Levelized Cost (\$/kW)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/kW)	Portfolio Level (PL)– All Sectors	2016	\$853.70	N/A	N/A	Calculated from CET outputs (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW	CEDARS Online CET Ouput	Per CEDARS	None
41	BayREN	A02	PL4	LC	TRC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/kWh)	Portfolio Level (PL)– All Sectors	2016	\$0.56	N/A	N/A	Using CET Outputs and formula (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh	CEDARS Online CET Ouput	Per CEDARS	None
42	BayREN	A02	PL4	LC	TRC Levelized Cost (\$/therm)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/therm)	Portfolio Level (PL)– All Sectors	2016	\$2.08	N/A	N/A	Using CET Outputs and formula (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm	CEDARS Online CET Ouput	Per CEDARS	None
43	BayREN	A02	RSF1	S1	First year annual kW gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	First year annual kW gross	Residential (RSF)	2016	792	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS	None
44	BayREN	A02	RSF1	S1	First year annual kW net	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	First year annual kW net	Residential (RSF)	2016	594	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS	None
45	BayREN	A02	RSF1	S1	First year annual kWh gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••		Residential (RSF)	2016	520,164	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS	None
46	BayREN	A02	RSF1	S1	First year annual kWh ne	S1: Energy t Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••		Residential (RSF)	2016	390,123	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS	None
47	BayREN	A02	RSF1	S1	First year annual Therm gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	First year annual Therm gross	Residential (RSF)	2016	138,024	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS	None

<u>sy</u>	Key Definitions	Proxy Explan ation
	None	
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t Inde	PA	AttA Page		Method Code	Units of Measurement	Motric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Year	2017 Numerator	2017 Denominator	BayREN Notes, assumptions, methodology	Data Source	Methodology
48			RSF1	S1	First year annual Therm net	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	First year annual Therm net	Residential (RSF)	2016	103,518	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS
49	BayREN	A02	RSF1	S1	Lifecycle ex- ante kW gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	Lifecycle ex-ante kW gross	Residential (RSF)	2016	12,565	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS
50	BayREN	A02	RSF1	S1	Lifecycle ex- ante kW net	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	Lifecycle ex-ante kW net	Residential (RSF)	2016	8,795	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS
51	BayREN	A02	RSF1	S1	Lifecycle ex- ante kWh gross	S1: Energy s Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	Lifecycle ex-ante kWh gross	Residential (RSF)	2016	4,976,796	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS
52	BayREN	A02	RSF1	S1	Lifecycle ex- ante kWh net	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	Lifecycle ex-ante kWh net	Residential (RSF)	2016	3,732,597	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS
53	BayREN	A02	RSF1	S1	Lifecycle ex- ante Therm gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	Lifecycle ex-ante Therm gross	Residential (RSF)	2016	2,101,867	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS
54	BayREN	A02	RSF1	S1	Lifecycle ex- ante Therm net	S1: Energy t Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers••	Lifecycle ex-ante Therm net	Residential (RSF)	2016	1,576,400	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS
55	BayREN	A03	RSF2	G	MT CO2eq	GHG	Metric	RSF2-G••Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis••	CO2-equivalent of net annual kWh savings	Residential (RSF)	2016	114	N/A	N/A	Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Ouput	Per CEDARS

	Proxy
	Explan
Key Definitions	ation
"ex ante" refers to claimed savings	
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"ex ante" refers to claimed savings	
"ex ante" refers to claimed savings	
"ex ante" refers to claimed savings	
"ex ante" refers to claimed savings	
ex ance refers to claimed savings	
"ex ante" refers to claimed savings	
"ex ante" refers to claimed savings	
ex ance refers to claimed savings	
Definition: Single family are defined as	
Service account on residential rates, with	
dwelling code of single family home or	
single family dwelling.	

hee t dex P				Method Code		t Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Year	2017 Numerator	2017 Denominator	BayREN Notes, assumptions, methodology Data Source	Methodology	Key Definitions
56 Bay	REN	A03	RSF3	D1-D	Lifecycle NE ⁻ kW	D1: Depth of interventions ••Per downstream participant	Metric	RSF3-D1D - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)••	Unt-in - Downstream	Residential (RSF)	2016	6.33	8,795	1,389	Applicable CET result divided by forecast participation CEDARS Online C	ET Ouput D1D: Downstream methodology Numerator: Total downstream savings claimed - Denominator: Total number of downstream participant	
7 Bay	REN	A03	RSF3	D1-D	Lifecycle NE ⁻ kWh	D1: Depth of interventions ••Per downstream participant	Metric	RSF3-D1D - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)••	Average lifecycle ex-ante kWh net savings per participant - Opt-in - Downstream	Residential (RSF)	2016	2,687	3,732,597	1,389	Applicable CET result divided by forecast participation CEDARS Online C	ET Ouput D1D: Downstream methodology Numerator: Total downstream savings claimed - Denominator: Total number of downstream participant	
8 Bay	REN	A03	RSF3	D1-D	Lifecycle NE Therms	D1: Depth of interventions ••Per downstream participant	Metric	RSF3-D1D - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)••	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Downstream	Residential (RSF)	2016	1,135	1,576,400	1,389	Applicable CET result divided by forecast participation CEDARS Online C	ET Ouput D1D: Downstream methodology Numerator: Total downstream savings claimed - Denominator: Total number of downstream participant	
Bay	REN	A03	RSF3	D1-M	Lifecycle NE ⁻ kW	D1: Depth of interventions ••Per midstream participant	Metric	RSF3-D1M - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)••	Average lifecycle ex-ante kW net savings per participant - Opt-in - Midstream	Residential (RSF)	2016	N/A	N/A	N/A	BayREN does not have any residential midstream, upstream or opt- out programs.	D1M: Midstream methodology –Numerator: Total midstream savings claimed	Per discussion with ED, this metric not feasible and PAs agreed instead to repo total upstream and midstream savings. "Energy savings" = lifecycle NET savings
Вау	REN	A03	RSF3	D1-M	Lifecycle NE ⁻ kWh	D1: Depth of interventions ••Per midstream participant	Metric	RSF3-D1M - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)••	Average lifecycle ex-ante kWh net savings per participant - Opt-in - Midstream	Residential (RSF)	2016	N/A	N/A	N/A	BayREN does not have any residential midstream, upstream or opt- out programs.	D1M: Midstream methodology –Numerator: Total midstream savings claimed	Per discussion with ED, this metric not feasible and PAs agreed instead to repo total upstream and midstream savings. "Energy savings" = lifecycle NET savings
Вау	REN	A03	RSF3	D1-M	Lifecycle NE ⁻ Therms	D1: Depth of interventions ••Per midstream participant	Metric	RSF3-D1M - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)••	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Midstream	Residential (RSF)	2016	N/A	N/A	N/A	BayREN does not have any residential midstream, upstream or opt- out programs.	D1M: Midstream methodology –Numerator: Total midstream savings claimed	Per discussion with ED, this metric not feasible and PAs agreed instead to repo total upstream and midstream savings. "Energy savings" = lifecycle NET savings
Вау	REN	A03	RSF3	D1-0	Lifecycle NE ⁻ kW	D1: Depth of interventions ••Per opt out participant	Metric	RSF3-D1O - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)••	Unt-OUT	Residential (RSF)	2016	N/A	N/A	N/A	BayREN does not have any residential midstream, upstream or opt- out programs.	ex post savings can be claimed. Per participant	 y D1O Key Definitions: 1) The only opt-ouprogram is the Home Energy Report usi social norming through neighborhood comparisons 2) Per ED: "Energy savings lifecycle NET savings.
Bay	REN	A03	RSF3	D1-0	Lifecycle NE kWh	D1: Depth of interventions ••Per opt out participant	Metric	RSF3-D1O - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)••	Average lifecycle ex-ante kWh net savings per participant - Opt-out	Residential (RSF)	2016	N/A	N/A	N/A	BayREN does not have any residential midstream, upstream or opt- out programs.	ex post savings can be claimed. Per participant	 y D1O Key Definitions: 1) The only opt-ou program is the Home Energy Report usi social norming through neighborhood comparisons 2) Per ED: "Energy savings lifecycle NET savings.

hee t dex	PA	AttA Page	AttA Order	Method Code			letric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Yea	2017 Numerator	2017 Denominator	BayREN Notes, assumptions, methodology	Data Source	Methodology	Key Definitions
64 Ba	yren		RSF3		Lifecycle Therm	D: NET in s	1: Depth of terventions ••Per opt out participant	Metric	RSF3-D1O - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)••	Average lifecycle ex-ante Therm net savings per participant - Opt-out	Residential (RSF)	2016	N/A	N/A	N/A	BayREN does not have any residential midstream, upstream or opt- out programs.		D10 Methodology: Only ex post savings can be claimed. Per participant	 D1O Key Definitions: 1) The only opt-ouprogram is the Home Energy Report using social norming through neighborhood d comparisons 2) Per ED: "Energy savings lifecycle NET savings.
65 Ba	yREN	A03	RSF3	D1-U	Lifecycle kW	NET in	1: Depth of terventions ●●Per upstream participant	Metric	RSF3-D1U- Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream , as feasible)••	Average lifecycle ex-ante kW net savings per participant - Opt-in - Upstream	Residential (RSF)	2016	N/A	N/A	N/A	BayREN does not have any residential midstream, upstream or opt- out programs.		D1U: Upstream methodology– Numerator: Total upstream savings claimed	Per discussion with ED, this metric not feasible and PAs agreed instead to repo total upstream and midstream savings. "Energy savings" = lifecycle NET savings
6 Ba	yREN	A03	RSF3	D1-U	Lifecycle kWh	NET ^{in:}	1: Depth of terventions ●●Per upstream participant	Metric	RSF3-D1U- Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream , as feasible)••	Average lifecycle ex-ante kWh net savings per participant - Opt-in - Upstream	Residential (RSF)	2016	N/A	N/A	N/A	BayREN does not have any residential midstream, upstream or opt- out programs.		D1U: Upstream methodology– Numerator: Total upstream savings claimed	Per discussion with ED, this metric not feasible and PAs agreed instead to report total upstream and midstream savings. "Energy savings" = lifecycle NET savings
7 Ba	yREN	A03	RSF3	D1-U	Lifecycle Therm	NET in s	1: Depth of terventions ••Per upstream participant	Metric	RSF3-D1U- Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream , as feasible)••	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Upstream	Residential (RSF)	2016	N/A	N/A	N/A	BayREN does not have any residential midstream, upstream or opt- out programs.		D1U: Upstream methodology– Numerator: Total upstream savings claimed	Per discussion with ED, this metric not feasible and PAs agreed instead to report total upstream and midstream savings. "Energy savings" = lifecycle NET savings
Ba	yREN	A03	RSF4	P1	Percen	t p t	P1: enetration of energy efficiency rograms in he eligible market •Percent of articipation	Metric	RSF-P1••Percent of participation relative to eligible population••	Percent of participation relative to eligible population	Residential (RSF)	2016	0.074%	1,389	1,870,311	Forecast participation divided by applicable population			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 of participate in multiple programs in the calendar year.
Ва	yREN	A03	RSF4	Ρ3	Percen	P t p t	P3: Panetration of energy efficiency rograms in he eligible arket - DAC	Metric	RSF-P3 - Percent of participation in disadvantaged communities••	Percent of participation in disadvantaged communities	Residential (RSF)	2016	0%	0.00	74,906	Assumed same participation rate as non-DAC		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 tract in the top quartile of CalEnviroScreen 3 scores.
Ва	yREN	A03	RSF4	Ρ4	Percen	t p	P4: enetration of energy efficiency rograms in the HTR market	Metric	RSF-P4 - Percent of participation by customers defined as "hard-to-reach".	Percent of participation by customers defined as "hard-to-reach"	Residential (RSF)	2016	0%	0.00	47,212	Participation rate assumed to be half that of other groups due to HTR status	US Census data	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 "includ disadvantaged communities (as designated by CalEPA) in the geographi criteria for hard to reach customers."
Ba	yREN	A03	RSF5	LC	PAC Level Cost (\$/k		ost per unit saved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	PAC Levelized Cost (\$/kW)	Residential (RSF)	2016	\$224.53	N/A	N/A	(PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	CEDARS Online CET Ouput	Per CEDARS	None

dshee t <u>Index</u>	PA	AttA Page	AttA Order	Method Code	Units of Measureme	nt <u>Metr</u>		Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Year	2017 Numerator	2017 Denominator		Data Source CEDARS Online CET Ouput	Methodology Per CEDARS
72	BayREN	A03	RSF5	LC	PAC Levelize Cost (\$/kWł		per unit aved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	PAC Levelized Cost (\$/kWh)	Residential (RSF)	2016	\$0.53	N/A	N/A	(PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms		
73	BayREN	A03	RSF5	LC	PAC Levelize Cost (\$/ther	•	per unit aved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	PAC Levelized Cost (\$/therm)	Residential (RSF)	2016	\$2.34	N/A	N/A	(PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	CEDARS Online CET Ouput	Per CEDARS
74 1	BayREN	A03	RSF5	LC	TRC Levelize Cost (\$/kW	•	per unit aved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/kW)	Residential (RSF)	2016	\$381.21	N/A	N/A	(PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	CEDARS Online CET Ouput	Per CEDARS
75	BayREN	A03	RSF5	LC	TRC Levelize Cost (\$/kWł	•	per unit aved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/kWh)	Residential (RSF)	2016	\$0.90	N/A	N/A	(PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	CEDARS Online CET Ouput	Per CEDARS
76	BayREN	A03	RSF5	LC	TRC Levelize Cost (\$/ther	-	per unit aved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/therm)	Residential (RSF)	2016	\$3.97	N/A	N/A	(PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	CEDARS Online CET Ouput	Per CEDARS
77	BayREN	A03	RSF6i	EI1	BTU	inten	nergy Isity per Usehold	Indicator	RSF-EI1(Indicator) - Average energy use intensity of single family homes (average usage per household – not adjusted)••	Average first year annual kWh gross per household	Residential (RSF)	2016	N/A - Indicator	N/A - Indicator	N/A - Indicator	These are Indicators and not metrics. Per the Decision (D.18-05-041) on the Business Plans, Program Administrators do not have to provide data on Indicators only definitions and methodologies		Numerator: Total energy used in sector - Denominator: number of service accounts
78	BayREN	A03	RMF1	S1-IU	First year annual kW gross	/ SI:E	Energy vings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	First year annual kW gross - In Unit	Residential Sector – Multi-family (RMF)	N/A - Indicator	197	N/A	N/A	These are Indicators and not metrics. Per the Decision (D.18-05-041) on the Business Plans, Program Administrators do not have to provide data on Indicators only definitions and methodologies	-	Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases
79	BayREN	A03	RMF1	S1-IU	First year annual kW n		Energy vings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	First year annual kW net - In Unit	Residential Sector – Multi-family (RMF)	2016	211	N/A	N/A	InUnit % kW savings * CET First Year Annual kW Net. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.		Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases

	Key Definitions	Proxy Explan ation
	None	
	None	
	None	
	None	
	None	
nergy ber of	Definition: Household refers to a service account	
ıs,	Definition: Multi-family refers to any building or property with at least two residential housing units.	
n the		
sing is, areas, oy	Definition: Multi-family refers to any building or property with at least two residential housing units.	
n the		

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Index PA		Drder C		First year annual kWh gross	Metric Type S1: Energy Savings	Indicator Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	Metric irst year annual kWh gross - In Unit	Sector Residential Sector – Multi-family (RMF)	Year 2016	Reporting Year	Numerator N/A	Denominator N/A	BayREN Notes, assumptions, methodologyData SourceInUnit % kWh savings * CET First Year Annual kWh gross. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.CEDARS Online CET Output & MF PA Database	MethodologyKey DefinitionsSavings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databasesDefinition: Multi-family refers to any building or property with at least two residential housing units.
81 BayREN	A03 F	RMF1 S2	IU an	First year nual kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	First year annual kWh net - In Unit	Residential Sector – Multi-family (RMF)	2016	288,986	N/A	N/A	InUnit % kWh savings * CET First Year Annual kWh. net Calculated out CEDARS Online CET Output & MF percentage of savings In-Unit Measures and Common Measures from PA Database BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	Savings calculated using Definition: Multi-family refers to any building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases
82 BayREN	A03 F	RMF1 S2		First year nnual Therm gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	irst year annual Therm gross - In Unit	Residential Sector – Multi-family (RMF)	2016	25,291	N/A	N/A	InUnit % Therms savings * CET First Year Annual Therms gross. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	Savings calculated using CET; MF designations, including common areas, dwelling codes, rate codes, and/or tags in the PA databasesDefinition: Multi-family refers to any building or property with at least two residential housing units.
83 BayREN	A03 F	RMF1 S1		First year nnual Therm net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	irst year annual Therm net - In Unit	Residential Sector – Multi-family (RMF)	2016	22,762	N/A	N/A	InUnit % Therms savings * CET First Year Annual Therm Net.CEDARS Online CET Output & MFCalculated out percentage of savings In-Unit Measures and CommonPA DatabaseMeasures from BayREN MF Total Project level savings. Valuesextracted from CET runs for a sample measure mix and number ofprojects believed to be representative of future program design.extracted from CET runs for a sample measure mix and number of	Savings calculated using CET; MF designations, including common areas, dwelling codes, rate codes, and/or tags in the PA databasesDefinition: Multi-family refers to any building or property with at least two residential housing units.
84 BayREN	A03 F	RMF1 S1	-IU	ifecycle ex- nte kW gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	ifecycle ex-ante kW gross - In Unit	Residential Sector – Multi-family (RMF)	2016	2,866	N/A	N/A	InUnit % kW savings * CET Lifecycle kW gross Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	Savings calculated using Definition: Multi-family refers to any building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases
85 BayREN	A03 F	RMF1 S2	-10	ifecycle ex- ante kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	Lifecycle ex-ante kW net - In Unit	Residential Sector – Multi-family (RMF)	2016	2,436	N/A	N/A	InUnit % kW savings * CET Lifecycle kW net. Calculated outCEDARS Online CET Output & MFpercentage of savings In-Unit Measures and Common Measures fromPA DatabaseBayREN MF Total Project level savings. Values extracted from CETruns for a sample measure mix and number of projects believed to berepresentative of future program design.For a sample measure mix and number of projects believed to be	Savings calculated using CET; MF designations, including common areas, dwelling codes, rate codes, and/or tags in the PA databasesDefinition: Multi-family refers to any building or property with at least two residential housing units.
86 BayREN	A03 F	RMF1 S1	-10	ifecycle ex- te kWh gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	ifecycle ex-ante kWh gross - In Unit	Residential Sector – Multi-family (RMF)	2016	4,068,272	N/A	N/A	InUnit % kWh savings * CET Lifecycle kWh gross. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	Savings calculated using CET; MF designations, including common areas, dwelling codes, rate codes, and/or tags in the PA databasesDefinition: Multi-family refers to any building or property with at least two residential housing units.
87 BayREN	A03 F	RMF1 S2	-111	ifecycle ex- nte kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	Lifecycle ex-ante kWh net - In Unit	Residential Sector – Multi-family (RMF)	2016	3,661,445	N/A	N/A	InUnit % kWh savings * CET Lifecycle kWh net Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	Savings calculated using Definition: Multi-family refers to any building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases

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t Index PA		AttA Met Order Co		Units of easurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Year	2017 Numerator	2017 Denominator	BayREN Notes, assumptions, methodology Data Source	Methodology Key Definitions
88 BayREN		RMF1 S1		focuclo ev-	S1: Energy Savings		RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••		Residential Sector – Multi-family (RMF)	2016	364,274.91	N/A	N/A	InUnit % Therms savings * CET Lifecycle Therms gross. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databasesDefinition: Multi-family refers to any building or property with at least two including or property with at least two two including or property with at least two including or property with at least
89 BayREN	A03	RMF1 S1	·IU	fecycle ex- e Therm net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit , common area, and master metered accounts)••	Lifecycle ex-ante Therm net - In Unit	Residential Sector – Multi-family (RMF)	2016	327,847	N/A	N/A	InUnit % Therms savings * CET Lifecycle Therms net. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	Savings calculated using Definition: Multi-family refers to any building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases
90 BayREN	A03	RMF1 S1-I		First year Innual kW gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	First year annual kW gross - Master Metereed	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using Definition: Multi-family refers to any CET; MF designations, including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases
91 BayREN	A03	RMF1 S1-I	им	First year nual kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	First year annual kW net - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using Definition: Multi-family refers to any CET; MF designations, building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases
92 BayREN	A03	RMF1 S1-I		First year nnual kWh gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	First year annual kWh gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using Definition: Multi-family refers to any building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases
93 BayREN	A03	RMF1 S1-I	ЛКЛ	First year ual kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	First year annual kWh net - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases
94 BayREN	A03	RMF1 S1-I		First year nual Therm gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	First year annual Therm gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using Definition: Multi-family refers to any CET; MF designations, including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases
95 BayREN	A03	RMF1 S1-I		First year nual Therm net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	First year annual Therm net - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases

Spro dsho t Indo	e	AttA Page		Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Year	2017 Numerator	2017 Denominator	BayREN Notes, assumptions, methodology Data Source	Methodology Key Definitions	Proxy Explan ation
96	BayREN	A03	RMF1	S1-MM	Lifecycle ex- ante kW gross	•	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	Lifecycle ex-ante kW gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
97	BayREN	A03	RMF1	S1-MM	Lifecycle ex- ante kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	Lifecycle ex-ante kW net - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using Definition: Multi-family refers to any building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
98	BayREN	A03	RMF1	S1-MM	Lifecycle ex- ante kWh gros	•	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	Lifecycle ex-ante kWh gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using CET; MF designations, including common areas, dwelling codes, rate codes, and/or tags in the PA databasesDefinition: Multi-family refers to any building or property with at least two residential housing units.Savings calculated using building or property with at least two including or property with at least two residential housing units.	
99	BayREN	A03	RMF1	S1-MM	Lifecycle ex- ante kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	Lifecycle ex-ante kWh net - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using Definition: Multi-family refers to any CET; MF designations, building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
10	BayREN	A03	RMF1		Lifecycle ex- ante Therm gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	Lifecycle ex-ante Therm gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
10	BayREN	A03	RMF1	S1-MM	Lifecycle ex- ante Therm ne	07	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)••	Lifecycle ex-ante Therm net - Master Metered	Residential Sector – Multi-family (RMF)	2016	0	0	0	BayREN does not have access to master metered data. BayREN tracks measures for In-Unit and common areas. Moving forward in 2018 BayREN will track master metered data separate from common area. Proxy 0.	Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
10	BayREN	A03	RMF1	SI-CA	First year annual kW gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	First year annual kW gross - Common Area	Residential Sector – Multi-family (RMF)	2016	105	N/A	N/A	Common % kW savings * CET First Year Annual kW Gross Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	Savings calculated using Definition: Multi-family refers to any CET; MF designations, building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
10	BayREN	A03	RMF1	SI-CA	First year annual kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	First year annual kW net - Common Area	Residential Sector – Multi-family (RMF)	2016	112	N/A	N/A	Common % kW savings * CET First Year Annual kW Net Calculated out CEDARS Online CET Output & MF percentage of savings In-Unit Measures and Common Measures from PA Database BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases	

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Index PA	Page Ord	er Code	Measurer	nent Metric T	ype Indicat	Business Plan Att A Description	Metric	Sector	Year	Reporting Year	Numerator	Denominator	BayREN Notes, assumptions, methodology	Data Source	Methodology Key Definitions	ation
104 BayREN	A03 RM	F1 SI-CA	First ye annual k gross	S1 · Ener	IVIETI	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	First year annual kWh gross - Common Area	Residential Sector – Multi-family (RMF)	2016	1,879,371	N/A	N/A	Common % kWh savings * CET First Year Annual kWh Gross. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Output & MF PA Database	Savings calculated using Definition: Multi-family refers to any CET; MF designations, building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
105 BayREN	A03 RM	F1 SI-CA	First ye annual kW		gy Metri s	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	First year annual kWh net - Common Area	Residential Sector – Multi-family (RMF)	2016	1,691,433	N/A	N/A	Common % kWh savings * CET First Year Annual kWh Net. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	•	Savings calculated using CET; MF designations, including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
106 BayREN	A03 RM	F1 SI-CA	First ye annual Th gross	S1. Fuer	ivietri	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	First year annual Therm gross - Common Area	Residential Sector – Multi-family (RMF)	2016	113,808	N/A	N/A	Common % Therms savings * CET First Year Annual Therms Gross. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Output & MF PA Database	Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
107 BayREN	A03 RM	F1 SI-CA	First ye annual Th net	S1 · Ener	IVIETI	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	First year annual Therm net - Common Area	Residential Sector – Multi-family (RMF)	2016	102,427	N/A	N/A	Common % Therms savings * CET First year annual Therm net. Calculate out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	CEDARS Online CET Output & MF PA Database	Savings calculated using Definition: Multi-family refers to any building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
108 BayREN	A03 RM	F1 SI-CA	Lifecycle ante kW g		- Metri	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	Lifecycle ex-ante kW gross - Common Area	Residential Sector – Multi-family (RMF)	2016	1,522	N/A	N/A	Common % kW savings * CET Lifecycle kW Gross. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.		Savings calculated using CET; MF designations, including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
109 BayREN	A03 RM	F1 SI-CA	Lifecycle ante kW		Metri	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	Lifecycle ex-ante kW net - Common Area	Residential Sector – Multi-family (RMF)	2016	3,249	N/A	N/A	Common % kW savings * CET Lifecycle kW Net. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.		Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
110 BayREN	A03 RM	F1 SI-CA	Lifecycle ante kWh	ex- S1: Ener gross Saving	Metri	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	Lifecycle ex-ante kWh gross - Common Area	Residential Sector – Multi-family (RMF)	2016	23,811,559	N/A	N/A	Common % kWh savings * CET Lifecycle kWh gross Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.		Savings calculated using Definition: Multi-family refers to any CET; MF designations, building or property with at least two including common areas, residential housing units. can be determined by dwelling codes, rate codes, and/or tags in the PA databases	
111 BayREN	A03 RM	F1 SI-CA	Lifecycle ante kWh		Metri	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	Lifecycle ex-ante kWh net - Common Area	Residential Sector – Multi-family (RMF)	2016	21,430,403	N/A	N/A	Common % kWh savings * CET Lifecycle kWh Net. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.		Savings calculated using CET; MF designations, including common areas, can be determined by dwelling codes, rate codes, and/or tags in the PA databases	

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112 BayREN	A03 RN	ЛF1 SI-CA	Lifecycle e ante Therr gross	S1 · Ene	IVIetric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	Lifecycle ex-ante Therm gross - Common Area	Residential Sector – Multi-family (RMF)	2016	1,639,248.29	N/A	N/A	Common % Therms savings * CET Lifecycle Therms Gross. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.	PA Database	CET; MF designations,	Definition: Multi-family refers to any building or property with at least two , residential housing units.
113 BayREN	A03 RN	/IF1 SI-CA	Lifecycle e ante Therm		Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area , and master metered accounts)••	Lifecycle ex-ante Therm net - Common Area	Residential Sector – Multi-family (RMF)	2016	1,475,323	N/A	N/A	Common % Therms savings * CET Lifecycle Therms Net. Calculated out percentage of savings In-Unit Measures and Common Measures from BayREN MF Total Project level savings. Values extracted from CET runs for a sample measure mix and number of projects believed to be representative of future program design.		CET; MF designations,	Definition: Multi-family refers to any building or property with at least two , residential housing units.
114 BayREN	A03 RN	/IF2 G	MT CO2e	q GHG	Metric	RMF-G•• Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis••	CO2-equivalent of net annual kWh savings	Residential Sector – Multi-family (RMF)	2016	1,057	N/A	N/A	CET NetElecCO2	CEDARS Online CET Output & MF PA Database	Per CEDARS	Definition: Multi-family refers to any building or property with at least two residential housing units.
115 BayREN	A04 RN	/IF3 D3a	Lifecycle N kW	D3: Dept ET intervent per build	ions Metric	RMF-D3 - Energy savings (kWh, kw, therms) per project (building)••••	Lifecycle ex-ante kW net per project (building)	Residential Sector – Multi-family (RMF)	2016	46	9,993	217	CET Lifecycle NET kW/ Average # of Buildings per Year. Determined average # of buildings/project and #units/project from 2014-2017 BayREN MF program data. For future year projections divided CET Total Num Units by Avg# of Buildings.	Per CEDARS CET Input Total Number Units and BayREN MF Program data.	- D3 Methodology: - Numerator: Total Savings claimed for MF building retrofits - Denominator: Number of buildings that have been retrofitted, per application.	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 savings
116 BayREN	A04 RN	/IF3 D3a	Lifecycle N kWh	D3: Dept ET intervent per build	ions Metric	RMF-D3 - Energy savings (kWh, kw, therms) per project (building)••••	Lifecycle ex-ante kWh net per project (building)	Residential Sector – Multi-family (RMF)	2016	115,631	25,091,848	217	CET Lifecycle NET kWh/ Average # of Buildings per year Determined average # of buildings/project and #units/project from 2014-2017 BayREN MF program data. For future year projections divided CET Total Num Units by Avg# of Buildings.	Per CEDARS CET Input Total Number Units and BayREN MF Program data.	- D3 Methodology: - Numerator: Total Savings claimed for MF building retrofits - Denominator: Number of buildings that have been retrofitted, per application.	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 savings
117 BayREN	A04 RN	/IF3 D3a	Lifecycle N Therms	D3: Dept ET intervent per build	ions Metric	RMF-D3 - Energy savings (kWh, kw, therms) per project (building)••••	Lifecycle ex-ante Therm net per project (building)	Residential Sector – Multi-family (RMF)	2016	8,310	1,803,171	217	CET Lifecycle NET Therms/ Average # of Buildings per year Determined average # of buildings/project and #units/project from 2014-2017 BayREN MF program data. For future year projections divided CET Total Num Units by Avg# of Buildings.	Per CEDARS CET Output Lifecycle Net kWh and BayREN MF Program data.	- D3 Methodology: - Numerator: Total Savings claimed for MF building retrofits - Denominator: Number of buildings that have been retrofitted, per application.	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 savings
118 BayREN	A04 RN	1F3 D4	Lifecycle N kW	D4: Dept ET intervent per prop	ions Metric	RMF-D4 - Average savings per participant Savings per project (property)••	Lifecycle ex-ante kW net per project (property)	Residential Sector – Multi-family (RMF)	2016	156	9,993	64	CET Lifecycle NET kW/ Average # of Buildings per year Determined average # of buildings/project and #units/project from 2014-2017 BayREN MF program data. For future year projections divided CET Total Num Units by Avg# of Projects.	Per CEDARS CET Output Lifecycle Net Therms and BayREN MF Program data.	- 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 combination of premise ID and service account. "Energy savings" = Lifecycle NET savings
119 BayREN	A04 RN	1F3 D4	Lifecycle N kWh	ET D4: Dept intervent per prop	ions Metric	RMF-D4 - Average savings per participant Savings per project (property)••	Lifecycle ex-ante kWh net per project (property)	Residential Sector – Multi-family (RMF)	2016	392,060	25,091,848	64	CET Lifecycle NET kWh/ Average # of Buildings per year Determined average # of buildings/project and #units/project from 2014-2017 BayREN MF program data. For future year projections divided CET Total Num Units by Avg# of Projects.	Per CEDARS CET Lifecycle NET kW and BayREN MF Program data.	Numerator - Total downstream savings	D4 Definition: "Project (property)" is defined by a unique combination of premise ID and service account. "Energy savings" = Lifecycle NET savings

hee t dex PA	AttA Page		Method Code		nt Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Year	2017 r Numerator	2017 Denominator	BayREN Notes, assumptions, methodology	Data Source	Methodology	Key Definitions
D BayREN	A04	RMF3	D4	Lifecycle NET Therms	D4: Depth of interventions per property		RMF-D4 - Average savings per participant Savings per project (property)••	Lifecycle ex-ante Therm net per project (property)	Residential Sector – Multi-family (RMF)	2016	28,175	1,803,171	64	CET Lifecycle NET Therms/ Average # of Buildings per year Determined average # of buildings/project and #units/project from 2014-2017 BayREN MF program data. For future year projections divided CET Total Num Units by Avg# of Projects.	Per CEDARS Lifecycle NET Therms and BayREN MF Program data.	- 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 combination of premise ID and service account. "Energy savings" = Lifecycle NET savings
1 BayREN	A04	RMF3	D5	Lifecycle NET kW	D5: Depth of I interventions ●●Per square foot	Metric	RMF-D5•• Energy savings (kWh, kw, therms) per square foot••	Lifecycle ex-ante kW net per square foot	Residential Sector – Multi-family (RMF)	2016	0.0024	9,993	4,156,000	CET Lifecycle NET kW/ Average square feet per year of participating accounts. Determined average square feet per unit by multiplying # average units*Average square feet per unit, 800 sq.ft (2014-2017 MF BayREN program data)	2017 MF BayREN program data = 800 sq.ft.	.	Per ED: "Energy savings" = lifecycle NET savings.
BayREN	A04	RMF3	D5	Lifecycle NET kWh	D5: Depth of interventions ••Per square foot	Metric	RMF-D5•• Energy savings (kWh, kw, therms) per square foot••	Lifecycle ex-ante kWh net per square foot	Residential Sector – Multi-family (RMF)	2016	6.04	25,091,848	4,156,000	CET Lifecycle NET kWh/ Average square feet per year of participating accounts. Determined average square feet per unit by multiplying # average units*Average square feet per unit, 800 sq.ft (2014-2017 MF BayREN program data)	BayREN MF Program data. Average square feet per unit from 2014- 2017 MF BayREN program data = 800 sq.ft.		Per ED: "Energy savings" = lifecycle NET savings.
BayREN	A04	RMF3	D5	Lifecycle NET Therms	D5: Depth of Interventions ●●Per square foot	Metric	RMF-D5•• Energy savings (kWh, kw, therms) per square foot••	Lifecycle ex-ante Therm net per square foot	Residential Sector – Multi-family (RMF)	2016	0.4339	1,803,171	4,156,000	CET Lifecycle NET Therms/ Average square feet per year of participating accounts. Determined average square feet per unit by multiplying # average units*Average square feet per unit, 800 sq.ft (2014-2017 MF BayREN program data)	and BayREN MF Program data. Average square feet per unit from 2014-2017 MF BayREN program data = 800 sq.ft.	D5 Methodology: - [Numerator] Total downstream savings [Denominator] Total number of MF service accounts participating. x average square footage of MF service account.	Per ED: "Energy savings" = lifecycle NET savings.
4 BayREN	A04	RMF4	P1-P	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	RMF-P1P ••Percent of participation relative to eligible population (by unit, and property)••	Percent of participation relative to eligible population by property	Residential Sector – Multi-family (RMF)	2016	0.004%	64	1,431,478	Average #of Projects(Properties)/ PG&E Total MF Units in BayREN Territory. The denominator represents the number of Multi Family Accounts, data provided by PG&E This number describes the number of Multi-Family units not properties, which is why the percentage is so small. We do not have access to number of Multifamily properites available in BayREN territory	data provided by PG&E. Average # of projects calculated from BayREN MF Program data 2014-2017	Numerator: Number of downstream participating properties (service accounts x premise ID) - Denominator: total	"Eligible Population" 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 participate in multiple programs in the calendar year PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory. "Service account" for households are tagged, coded, and/or have a different rate class in PA databases than "service accounts" for MF properties themselves
5 BayREN	A04	RMF4	P1-U	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation		RMF-P1U ••Percent of participation relative to eligible population (by unit , and property)••	Percent of participation relative to eligible population by unit	Residential Sector – Multi-family (RMF)	2016	0.363%	5195	1,431,478	CET Input Total Number Units/ PG&E Total MF Units in BayREN Territory	number of Multi Family Accounts data provided by PG&E in the BayREN territory. This number describes the number of Multi- Family units. Per CEDARS Input Total Number of Units	downstream participating MF units (this may be self- reported on application for building-level	"Eligible Population" 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 participate in multiple programs in the calendar year PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory. "Service account" for households are tagged, coded, and/or have a different rate class in PA databases than "service accounts" for MF properties themselves

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dex PA	Pag	ge Ord	der	Code	Measureme	nt Metric Type	Indicator	Business Plan Att A Description	Metric	Sector	Year	Reporting Year	Numerator		BayREN Notes, assumptions, methodology	Data Source	Methodology	Key Definitions
:6 BayRI	EN AO	4 RM	∕IF4	Р2	Percent	P2: Penetration of energy efficiency programs in terms of square feet of eligible	Metric	RMF-P2 - Percent of square feet of eligible population participating (by property)••	Percent of square feet of eligible population participating (by property)	Residential Sector – Multi-family (RMF)	2016	0.363%	4,156,000	1,145,182,400	Expected square feet of projects/ PG&E Total MF Units in BayREN Territory* 800. The average square footage of units from 2014-2017 who have particpated in the MF BayREN program is 800 square feet, This was used to calculate the expected number of square feet of estimated for PG&E Total MF Units in BayREN Territory .	The denominator represents the number of Multi Family Accounts data provided by PG&E in the BayREN territory. This number describes the number of Multi- Family units. BayREN MF Program data, 2014-2017.	P2 Methodology: Numerator: square footage of participating service accounts (x Premise IDs) Denominator: Square footage of all eligible accounts (x Premise IDs)	
7 BayRl	EN AO	4 RM	MF4 P3	3: DAC	Percent	P3: Penetration of energy efficiency programs in the eligible market - DAC	Metric	RMF-P3 - Percent of participation in disadvantaged communities••	Percent of participation in disadvantaged communities	Residential Sector – Multi-family (RMF)	2016	12.5%	8	64	CET Input Total Number Units* Average DAC Participation (units) BayREN MF / PG&E Total MF Units in estimated DAC BayREN Territory	The denominator represents the y number of Multi Family Accounts data provided by PG&E in the BayREN territory. This number describes the number of Multi- Family units. Data from CalEnviroScreen 3.0 census tracts shows that 7% of Bay Area population are DA C. Divided	participants in disadvantaged communities Denominator: Total	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tract in the top quartile of CalEnviroScreen 3 scores "Participant" is defined as a unique person or entity identified through a combination of service accou and premise ID and who participants in ratepayer funded energy efficiency intervention
8 BayR	EN AO	4 RM	ИF4 Р	4: HTR	Percent	P4: Penetration of energy efficiency programs in the HTR market	Metric	RMF-P4•• Percent of participation by customers defined as "hard-to-reach"••	Percent of participation by customers defined as "hard-to-reach"	Residential Sector – Multi-family (RMF)	2016	0%	0	0	BayREN does not have hard to reach based on D.18-05-041. With definition of Hard to Reach BayREN is excluded and we are not targeting Hard to Reach.		Numerator: number of participants in HTR geographic area - Denominator: Total	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." "Participant" is defined as a unique person or entity identified through a combination of service account and premise ID and who participants in a
9 BayRl	EN AO	4 RM	MF5	B1	Percent	B1: MF Benchmarkin g Penetration	Metric	RMF-B1 - Percent of benchmarked multi-family properties relative to the eligible population••••	Percent of benchmarked multi-family properties relative to the eligible population	Residential Sector – Multi-family (RMF)	2016	0%	0	0	multiplied by expected # projects based past participation. Eligible number of MF Accounts supplied by PG&E. This number describes			
0 BayRl	EN AO	4 RM	MF5	B6	Percent	B6: Benchmarkin g of HTR Properties	Metric	B6(RMF) - Percent of benchmarking by properties defined as "hard-to-reach"••••	Percent of benchmarking by properties defined as "hard-to-reach"	Residential Sector – Multi-family (RMF)	2016	0%	0	0	BayREN does not have hard to reach based on D.18-05-041. With definition of Hard to Reach BayREN is excluded and we are not targeting Hard to Reach.			"Benchmarking" is defined as benchmarked by Portfolio Manager. Participants are defined as those with Service accounts x premise IDs in HTR market -
1 BayR	EN AO	4 R№	VIF6	LC	PAC Levelize Cost (\$/kW)	d Cost per unit) saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	PAC Levelized Cost (\$/kW)	Residential Sector – Multi-family (RMF)	2016	\$497.23	N/A	N/A	Levelized costs formulas provided by Metrics Working Group (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	CEDARS Online CET Output	•	None
2 BayR	EN AO	4 RM	MF6	10	PAC Levelize Cost (\$/kWh	d Cost per unit ı) saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	PAC Levelized Cost (\$/kWh)	Residential Sector – Multi-family (RMF)	2016	\$0.20	N/A	N/A	Levelized costs formulas provided by Metrics Working Group (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	CEDARS Online CET Output	Per CEDARS	None
3 BayR	EN AO	4 RM	MF6	LC	PAC Levelize Cost (\$/therr	d Cost per unit n) saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	PAC Levelized Cost (\$/therm)	Residential Sector – Multi-family (RMF)	2016	\$0.70	N/A	N/A	Levelized costs formulas provided by Metrics Working Group (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	CEDARS Online CET Output	Per CEDARS	None

Sprea dshee t		AttA	Att			nits of		Metric/				Baseline	2017	2017	2017				
Index 134	PA BayREN	Page		e <u>r Code</u> F6 LC	TRC		Metric Type	Indicator Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	Metric TRC Levelized Cost (\$/kW)	Sector Residential Sector – Multi-family (RMF)	Year 2016	Reporting Year \$863.40	Numerator N/A	Denominator			0.	Key Definition
135	BayREN	A04	RM	F6 LC		Levelized (\$/kWh)	Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/kWh)	Residential Sector – Multi-family (RMF)	2016	\$0.34	N/A	N/A	Levelized costs formulas provided by Metrics Working Group CEDARS Onlin (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	ine CET Output Per	CEDARS	None
136	BayREN	A04	RM	F6 LC		Levelized (\$/therm)	Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/therm)	Residential Sector – Multi-family (RMF)	2016	\$1.21	N/A	N/A	Levelized costs formulas provided by Metrics Working Group (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms and (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kW/kWh/Therms	ine CET Output Per	CEDARS	None
137	BayREN	A04	RMI	-7i El2	BT	Ū/unit	Energy Intensity per MF unit	Indicator	RMF-E12[Indicator] - and Average energy use intensity of multifamily units. including in-unit accounts)	Average first year ex-ante kWh gross per unit	Residential Sector – Multi-family (RMF)	2016	N/A - Indicator	N/A - Indicator	N/A - Indicator	These are Indicators and not metrics. Per the Decision (D.18-05-041) on the Business Plans, Program Administrators do not have to provide data on Indicators only definitions and methodologies, which can be found in the ED Template.	of R Den	merator: Total usage Res MF sector nominator: total units Res MF sector	;
138	BayREN	A04	RMI	-7i El3	BT	Ū/sqft	Energy Intensity per MF unit square foot	Indicator	RMF-E13[Indicator] Average energy use intensity of multifamily buildings (average usage per square foot – not adjusted ••	Average first year ex-ante kWh gross per square foot	Residential Sector – Multi-family (RMF)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	These are Indicators and not metrics. Per the Decision (D.18-05-041) on the Business Plans, Program Administrators do not have to provide data on Indicators only definitions and methodologies, which can be found in the ED Template.	of R Den unit Sect squa - Av fron data deci sou	merator: Total usage Res MF sector nominator: (total ts in the Res MF tor times the average pare footage per unit). vg sq footage is taken m either 1) PA abases,Each PA is ciding which data prce is most resentative of their	
139	BayREN	A05	C1	. S1	anr	rst year nual kW gross	S1: Energy Savings	Metric	C-S1•• - 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)	N/A - Indicator	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on			None
140	BayREN	A05	C1	. S1		st year al kW net	S1: Energy Savings	Metric	C-S1•• - 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)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	per	CEDARS	None
141	BayREN	A05	C1	. S1	ann	rst year ual kWh gross	S1: Energy Savings	Metric	C-S1•• - 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)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	per	CEDARS	None

	Key Definitions	Proxy Explan ation
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	Order			Metric Type		Business Plan Att A Description	Metric	Sector	Year				BayREN Notes, assumptions, methodology Data Source	ce Methodology
													BayREN did not have a commericial program in 2017, so no data to report on	per CEDARS
A05	C1	S1	First year annual kWh ne	S1: Energy t Savings	Metric	C-S1•• - 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)	2019	N/A	N/A	N/A		
													BayREN did not have a commericial program in 2017, so no data to report on	per CEDARS
A05	C1	51	First year annual Therm gross	S1: Energy Savings	Metric	C-S1•• - 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)	2019	N/A	N/A	N/A		
													BayREN did not have a commericial program in 2017, so no data to	per CEDARS
A05	C1	S1	First year annual Therm net	S1: Energy Savings	Metric	C-S1•• - 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)	2019	N/A	N/A	N/A		
													BayREN did not have a commericial program in 2017, so no data to report on	per CEDARS
A05	C1	51	-		Metric	C-S1•• - 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)	2019	N/A	N/A	N/A		
													BayREN did not have a commericial program in 2017, so no data to	per CEDARS
A05	C1	S1	Lifecycle ex- ante kW net	S1: Energy Savings	Metric	C-S1•• - 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)	2019	N/A	N/A	N/A		
													BayREN did not have a commericial program in 2017, so no data to report on	per CEDARS
A05	C1	S1	-	S1: Energy s Savings	Metric	C-S1•• - 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)	2019	N/A	N/A	N/A		
													BayREN did not have a commericial program in 2017, so no data to	per CEDARS
A05	C1	S1	Lifecycle ex- ante kWh net	S1: Energy Savings	Metric	C-S1•• - 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)	2019	N/A	N/A	N/A		
													BayREN did not have a commericial program in 2017, so no data to report on	per CEDARS
A05	C1	S1	Lifecycle ex- ante Therm gross	S1: Energy Savings	Metric	C-S1•• - 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)	2019	N/A	N/A	N/A		
	A05 A05 A05 A05	Page Order A05 C1 A05 C1 A05 C1 A05 C1 A05 C1 A05 C1 A05 C1	PageOrderCodeA05C1S1A05C1S1A05C1S1A05C1S1A05C1S1	PageOrderCodeMeasurementA05C1S1First year annual KWh neA05C1S1First year annual Therm grossA05C1S1First year annual Therm netA05C1S1Lifecycle ex- ante kW grossA05C1S1Lifecycle ex- ante kW grossA05C1S1Lifecycle ex- ante kW netA05C1S1Lifecycle ex- ante kW netA05C1S1Lifecycle ex- ante kWh grossA05C1S1Lifecycle ex- ante kWh gross	PageOrderCodeMeasurementMetric TypeA05C1S1First year annual KWh netS1: Energy SavingsA05C1S1First year annual Therm netS1: Energy SavingsA05C1S1First year annual Therm netS1: Energy SavingsA05C1S1First year annual Therm netS1: Energy SavingsA05C1S1Lifecycle ex- ante kW grossS1: Energy SavingsA05C1S1Lifecycle ex- ante kW netS1: Energy SavingsA05C1S1Lifecycle ex- ante kW netsS1: Energy SavingsA05C1S1Lifecycle ex- ante kWh grossS1: Energy SavingsA05C1S1Lifecycle ex- ante kWh grossS1: Energy SavingsA05C1S1Lifecycle ex- ante kWh netS1: Energy SavingsA05C1S1Lifecycle ex- ante kWh netS1: Energy Savings	PageOrderCodeMeasurementMetric TypeIndicatorA05C1S1First year annual KWh netS1: Energy SavingsMetricA05C1S1First year annual Therm grossS1: Energy SavingsMetricA05C1S1First year annual Therm netS1: Energy SavingsMetricA05C1S1Lifecycle ex- ante kW grossS1: Energy SavingsMetricA05C1S1Lifecycle ex- ante kW grossS1: Energy SavingsMetricA05C1S1Lifecycle ex- ante kW netS1: Energy SavingsMetricA05C1S1Lifecycle ex- ante kW netsS1: Energy SavingsMetricA05C1S1Lifecycle ex- ante kWh netsS1: Energy SavingsMetricA05C1S1Lifecycle ex- ante kWh netsS1: Energy SavingsMetricA05C1S1Lifecycle ex- ante kWh netsS1: Energy SavingsMetricA05C1S1Lifecycle ex- ante kWh netS1: Energy SavingsMetric	Page Order Odde Measurement Metric Type Indicator Business Plan Att A Description A05 C1 S1 First year annual kWh net S1: Energy Savings Metric C-51 First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) A05 C1 S1 First year annual Therm gross S1: Energy Savings Metric C-51 First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) A05 C1 S1 First year annual Therm net S1: Energy Savings Metric C-51 First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) A05 C1 S1 Lifecycle ex- ante KW gross S1: Energy Savings Metric C-51 First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) A05 C1 S1 Lifecycle ex- ante kWh net S1: Energy Savings Metric C-51+ First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) A05 C1 S1 Lifecycle ex- savings S1: Energy Savings Metric C-51+ First year annual and lifecycle ex-ante (Page Order Gode Mestric Type Indicator Business Plan Att A Description Metric A05 G1 S1 First year Simply Metric C-S2+ First year annual and lifecycle First year annual KWh net A05 G1 S1 First year S1: Energy Metric C-S1+ First year annual and lifecycle First year annual KWh net A05 G1 S1 First year S1: Energy Metric C-S1+ First year annual and lifecycle First year annual Therm gross A05 G1 S1 First year S1: Energy Metric C-S1+ First year annual and lifecycle First year annual Therm gross A05 G1 S1 First year S1: Energy Metric C-S1+ First year annual and lifecycle First year annual Therm net A05 G1 S1 Lifecycle ex-start KW gross S1: Energy Metric C-S1+ First year annual and lifecycle Lifecycle ex-ante kW gross A05 G1 S1 Lifecycle ex-start KW ret S1: Energy Metric C-S1+ First year annual and lifecycle Lifecycle	PageOrderKesterMetersIndicatorDunless Plan Att A DescriptionMetricMetricSectorA05C1S2Prot year annual KWh eerS1: Energy SteingerMetric $C33 + \cdot First year annual and infersteier ande (per columbon) gas, effettis, anddemand sovings ignose and net + *First year annual KWh netCommercial Sector (S)A05C1S2First yearannual ThemrestS1: EnergySteingerMetricC53 + \cdot First year annual and infersteidemand savings ignose and net + *First year annual Them grossCommercial Sector (S)A05C1S2First yearannual ThemrestS1: EnergySteingerMetricC53 + \cdot First year annual and infersteidemand savings ignose and net + *First year annual Them grossCommercial Sector (S)demand savings ignose and net + *A05C1S2Jiferytei e.e.steingerS1: EnergySteingerMetricC53 + \cdot First year annual and infersteidemand savings ignose and net + *Unlessel e.e. annual Them grossCommercial Sector (S)demand savings ignose and net + *Unlessel e.e. annual Them grossCommercial Sector (S)demand savings ignose and net + *Unlessel e.e. annual WW grossCommercial Sector (S)demand savings ignose and net + *Unlessel e.e. annual WW grossCommercial Sector (S)demand savings ignose and net + *Unlessel e.e. annual WW grossCommercial Sector (S)demand savings ignose and net + *Unlessel e.e. annual WW grossCommercial Sector (S)demand savings ignose and net + **Unlessel e.e. annue WW grossCommercial Sector (S)demand savings $	PageOrderCodeMeasurementMetric TypeIndicatorRuelness Plan Att A DescriptionMetricDetricEactorYearA05C1S1InstitytorS1: Inorgy grossMatricCS1 Titytee annual indication demand page deficition in the yearFirst year annual Whith redCommercial Sector (C)2019A05C1S1First year grossStrinorgy grossMatricCS1 Titytee annual indificycle demand page deficition in the year demand page deficition in the yearFirst year annual Them yearsCommercial Sector (C)2019A05C1S1First year annual Them setS1: Inorgy sorigeMatricCS1 Titytee annual and fileycle demand being gross and netFirst year annual Them net demand being gross and netFirst year annual Them net annual Them netCommercial Sector (C)2019A05C1S1Inflexing as and thirty asS1: Inorgy sorigeMatricCS1 Titytee annual and fileycle demand being gross and netFirst year annual Them net annual Them netCommercial Sector (C)2019A05C1S1Inflexing as and thirty asS1: Inorgy SorigeMatricCS1 Titytee annual and fileycle demand being gross 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td=""></thdescri<></thdescription<></thdescription<></td>	Perg Outer Desc Metric Desc Desc <thdesc< th=""> Desc Desc</thdesc<>	Prote Order Sector Year Reporting Year Number of the sector processing large sector proce	No. Object Object Object Object Object No. State No. No. Description Description <thdescription< th=""> <thdescription< th=""> <thdescri< td=""></thdescri<></thdescription<></thdescription<>

 Key Definitions	Proxy Explan ation
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Sprea dshee t		AttA	AttA	Method	Units of		Metric/			Baseline	2017	2017	2017					Proxy Explan
Index	PA	Page	Order	Code	Measuremen	t Metric Type	Indicator	Business Plan Att A Description Metric	Sector	Year	Reporting Yea	n Numerator	Denominator	BayREN Notes, assumptions, methodology	Data Source Me	thodology	Key Definitions	ation
						~ -		C-S1•• - First year annual and lifecycle						BayREN did not have a commericial program in 2017, so no data to report on	per	CEDARS	None	
150	BayREN	A05	C1	S1	Lifecycle ex- ante Therm ne		Metric	ex-ante (pre-evaluation) gas, electric, and Lifecycle ex-ante Therm net demand savings (gross and net)••	Commercial Sector (C)	2019	N/A	N/A	N/A					
														BayREN did not have a commericial program in 2017, so no data to report on		Лethodology: - nerator = Metric C1	None	
151	BayREN	A05	C1	S2	Percent first year annual ky gross	()verall	Metric	C-S2 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and Percent first year annual kW demand savings (gross and net) as a gross percentage of overall sectoral usage.	Commercial Sector (C)	2019	N/A	N/A	N/A		sec	ominator = Total oral usage, from PA ng database		
														BayREN did not have a commericial program in 2017, so no data to	\$21	Aethodology: -	None	
						S2: Percent		C-S2 - First year annual and lifecycle						report on	Nur Der	nerator = Metric C1 ominator = Total	-	
152	BayREN	A05	C1	S2	Percent first year annual k\ net	Overall	Metric	ex-ante (pre-evaluation) gas electric and Percent first year annual kW	Commercial Sector (C)	2019	N/A	N/A	N/A			oral usage, from PA ng database		
														BayREN did not have a commericial program in 2017, so no data to report on		Methodology: - nerator = Metric C1	None	
					Percent first	S2: Percent Overall		C-S2 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and Percent first year annual kWh							Der	ominator = Total coral usage, from PA		
153	BayREN	A05	C1	S2	year annual kWh gross	Sectoral Savings	Metric	demand savings (gross and net) as a gross percentage of overall sectoral usage••	Commercial Sector (C)	2019	N/A	N/A	N/A		billi	ng database		
														BayREN did not have a commericial program in 2017, so no data to report on		/lethodology: - nerator = Metric C1	None	
154	BayREN	A05	C1	S2	Percent first year annual	S2: Percent Overall Sectoral	Metric	C-S2 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and Percent first year annual kWh demand savings (gross and net) as a net	Commercial Sector (C)	2019	N/A	N/A	N/A		sec	ominator = Total oral usage, from PA ng database		
					kWh net	Savings		percentage of overall sectoral usage••										
														BayREN did not have a commericial program in 2017, so no data to report on		Methodology: - nerator = Metric C1	None	
					Percent first	S2: Percent Overall		C-S2 - First year annual and lifecycle							Der	ominator = Total oral usage, from PA		
155	BayREN	A05	C1	S2	year annual Therm gross	Sectoral	Metric	ex-ante (pre-evaluation) gas, electric, and Percent first year annual Therm demand savings (gross and net) as a gross percentage of overall sectoral usage••	Commercial Sector (C)	2019	N/A	N/A	N/A		billi	ng database		
														BayREN did not have a commericial program in 2017, so no data to report on		Methodology: - nerator = Metric C1	None	
					Percent first	S2: Percent Overall		C-S2 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and Percent first year annual Therm							Der	ominator = Total coral usage, from PA		
156	BayREN	A05	C1	S2	year annual Therm net	Sectoral Savings	Metric	demand savings (gross and net) as a net percentage of overall sectoral usage••	Commercial Sector (C)	2019	N/A	N/A	N/A		billi	ng database		
						S2: Percent		C-S2 - First year annual and lifecycle						BayREN did not have a commericial program in 2017, so no data to report on	Nur Der	nerator = Metric C1 ominator = Total		
157	BayREN	A05	C1	S2	Percent lifecycle ex- ante kW gros	Overall Sectoral	Metric	ex-ante (pre-evaluation) gas electric and Percent lifecycle ex-ante kW	Commercial Sector (C)	2019	N/A	N/A	N/A			oral usage, from PA ng database		

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t Index PA	AttA Page		Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline		2017 Numerator	2017 Denominator	BayREN Notes, assumptions, methodology	Data Source	Methodology K
Index PA		C1	S2	Percent lifecycle ex- ante kW net	S2: Percent Overall Sectoral Savings	Metric	C-S2 - First year annual and lifecycle	Percent lifecycle ex-ante kW net	Commercial Sector (C)	Year 2019	<u>Reporting Year</u> N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	Data Source	MethodologyKS2 Methodology: -NNumerator = Metric C1 -Denominator = Totalsectoral usage, from PAbilling database
159 BayREN	A05	C1	52	Percent lifecycle ex- ante kWh gross	S2: Percent Overall Sectoral Savings	Metric	C-S2 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kWh gross	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		S2 Methodology: - No Numerator = Metric C1 - Denominator = Total sectoral usage, from PA billing database
160 BayREN	A05	C1	52	Percent lifecycle ex- ante kWh net	S2: Percent Overall Sectoral Savings	Metric	C-S2 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kWh net	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		S2 Methodology: - No Numerator = Metric C1 - Denominator = Total sectoral usage, from PA billing database
161 BayREN	A05	C1	S2	Percent lifecycle ex- ante Therm gross	S2: Percent Overall Sectoral Savings	Metric	C-S2 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and P demand savings (gross and net) as a percentage of overall sectoral usage••	Percent lifecycle ex-ante Therm gross	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		S2 Methodology: - No Numerator = Metric C1 - Denominator = Total sectoral usage, from PA billing database
162 BayREN	A05	C1	S2	Percent lifecycle ex- ante Therm net	S2: Percent Overall Sectoral Savings	Metric	C-S2 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and P demand savings (gross and net) as a percentage of overall sectoral usage••	Percent lifecycle ex-ante Therm net	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		S2 Methodology: - N Numerator = Metric C1 - Denominator = Total sectoral usage, from PA billing database
163 BayREN	A05	C2	G	MT CO2eq	GHG	Metric	C-G••Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		
164 BayREN	A05	C3	D2	Percent lifecycle gross kW	D2: Depth of interventions by project		Energy savings (gross kWh, therms) as a fraction of total project consumption.	Percent lifecycle gross kW	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		N/A - Please disregard N/ this unit of m measurement, kW was th not required by the Attachment A metric.
165 BayREN	A05	C3	D2	Percent lifecycle gross kWh	D2: Depth of interventions by project		Energy savings (gross kWh, therms) as a fraction of total project consumption.	Percent lifecycle gross kWh	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		D2 Methodology (ED De Ok)**Numerator: Energy ap savings claimed for project**Denominator: Energy Usage Baseline on application

		Proxy Explan
	Key Definitions	ation
: C1 - I n PA	None	
	None	
: C1 - I n PA		
	None	
: C1 - I 1 PA	None	
C1 - I PA	None	
: C1 - n PA	None	
rd	N/A - Please disregard this unit of	
vas	measurement, kW was not required by the Attachment A metric.	
с.		
) nergy	Definition: "Project" is defined as "per application"	
tor: ne		

shee t ndex PA			Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Ye	2017 ar Numerator	2017 Denominator	• BayREN Notes, assumptions, methodology Data Source	Methodology Key Definitions
		C3		Percent	D2: Depth of interventions by project		Energy savings (gross k/Whitherms) as a			-	N/A	 N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	D2 Methodology (ED Definition: "Project" is defined as "per Ok)**Numerator: Energy application" savings claimed for project**Denominator: Energy Usage Baseline on application
67 BayREN	A05	C4	P1L	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of	Metric	•••C-P1M•••Percent of participation relative to eligiblepopulation for small, medium, and large customers••	Percent of participation relative to eligible population for large customers	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	P1 Methodology: - Numerator: Number of downstreamParticipation is defined as the first instance of participation, should a customer participate more than once or participating (service accounts x premise ID) - Denominator: total number of serviceParticipation 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 the customer is in the eligible population and service territory
8 BayREN	A05	C4	P1M	Percent	Participation P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	•••C-P1M•••Percent of participation relative to eligiblepopulation for small, medium, and large customers••	Percent of participation relative to eligible population for medium customers	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	P1 Methodology: - Numerator: Number of downstreamParticipation is defined as the first instance of participation, should a customer participate more than once or participating (service accounts x premise ID) - Denominator: total number of (service accounts x premise IDs)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 the customer is in the eligible population and service territory in the sector.
) BayREN	A05	C4	P1S	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	•C-P1L••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)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	P1 Methodology: -Participation is defined as the firstNumerator: Number ofinstance of participation, should adownstreamcustomer participate more than once orparticipating (serviceparticipate in multiple programs in theaccounts x premise ID) -calendar year. PAs also need to haveDenominator: totalenough information about a customer tonumber of (servicedetermine if the customer is in theaccounts x premise IDs)eligible population and service territory
) BayREN	A05	C4	Ρ2	Percent	P2: Penetration of energy efficiency programs in terms of square feet of eligible population	Metric	C-P2 - Percent of square feet of eligible population••	Percent of square feet of eligible population	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	P2 Methodology:"Sq footage" is defined the same way asNumerator: squaredefined in Energy Star Portfolio Manager,footage of alland will be taken (in order of preference)participating servicefrom 1) PA customer databases, or 2)accounts (x Premise IDsproject application forms. Service accountif needed to distinguishnumber and premise ID number may botha particular participant)be used to determine unique participantsDenominator: Squarefootage of all eligibleaccountsaccounts
. BayREN	A05	C4	Ρ4	Percent	P4: Penetration of energy efficiency programs in the HTR market	Metric	C-P4- Percent of participation by customers defined as "hard-to-reach"••	Percent of participation by customers defined as "hard-to-reach"	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	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."
2 BayREN	A05	C5	В2	Percent	Square Footage of Commercial Benchmarkin g Penetration	Metric	C-B2 - Percent of benchmarked square feet of eligible population••	Percent of benchmarked square feet of eligible population	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	Method: Numerator: Average square footage information is Total square footage of benchmarked utility records, market studies (such as commercial buildings in Portfolio Manager Denominator: Total square footage of commercial sector (average square footage of commercial sector building x number of service accounts)

dsh t	ee	AttA	AttA	Method	Units of		Metric/				Baseline	2017	2017	2017				
Ind	ex PA	Page	Order	Code	Measuremen	t Metric Type	Indicator	Business Plan Att A Description	Metric	Sector	Year	Reporting Year	Numerator	Denominator	BayREN Notes, assumptions, methodology	Data Source	Methodology	Ke
17	'3 BayREN	A05	C5	B5L	Percent	Benchmarkin g Penetration for Commercial Sector	Metric	B5(C)L Percent of benchmarked customers relative to eligible population for large customers	Percent of benchmarked customers relative to eligible population for large customers		2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		Methodology: Numerator: Number of large commercial customers that have been benchmarked on Portfolio Manager Denominator: Total number of S, M, and L commercial customer accounts.	
17	'4 BayREN	A05	C5	B5M	Percent	Benchmarkin g Penetration for Commercial Sector	Metric	B5(C)M 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)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		Methodology: Numerator: Number of Medium commercial customers that have been benchmarked on Portfolio Manager Denominator: Total number of S, M, and L commercial customer	
17	'5 BayREN	A05	C5	B5S	Percent	Benchmarkin g Penetration for Commercial Sector	Metric	B5(C)S••Percent of benchmarked customers relative to eligible population for small customers	Percent of benchmarked customers relative to eligible population for small customers		2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		accounts. Methodology: Numerator: Number of Small commercial customers that have been benchmarked on Portfolio Manager Denominator: Total number of S, M, and L commercial customer accounts.	
17	'6 BayREN	A05	C5	B6		B6: Benchmarkin g of HTR Properties	Metric	B6(C) - Percent of benchmarking by customers defined as "hard-to-reach"••	Percent of benchmarking by customers defined as "hard-to-reach"	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		Benchmarking per Portfolio Manager. Service accounts x premise IDs in HTR market Proxy, if characteristics other than size and geo location aren't known, develop proxy using just size and geo location	
17	7 BayREN	A05	C6	LC	PAC Levelizec Cost (\$/kW)	d Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	-	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		Per CEDARS	N
17	'8 BayREN	A05	C6	LC	PAC Levelized Cost (\$/kWh)	d Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••		Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		Per CEDARS	N
17	'9 BayREN	A05	C6	LC	PAC Levelized Cost (\$/therm	d Cost per unit) saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••		Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		Per CEDARS	N
18	0 BayREN	A05	C6	LC	TRC Levelized Cost (\$/kW)	l Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••		Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on		Per CEDARS	N

	Key Definitions	Proxy Explan ation
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dex PA	<u>Р</u>	age	Order	Code	Measurer	ment N	Metric Type	Indicator	Business Plan Att A Description	Metric	Sector	Year R	eporting Year	Numerator	Denominator		Data Source Methodology	Key Definitions
81 BayR	EN A	405	C6	LC	TRC Leve Cost (\$/k		Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/kWh)	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	Per CEDARS	None
																BayREN did not have a commericial program in 2017, so no data to	Per CEDARS	None
82 BayR	EN A	405	C6	LC	TRC Leve Cost (\$/th		Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)••	TRC Levelized Cost (\$/therm)	Commercial Sector (C)	2019	N/A	N/A	N/A	report on		
3 BayR	SEN A	406	C7i	N1	Percer	nt	NMEC	Indicator	C-N1[Indicator] Fraction of total projects utilizing Normalized Metered Energy Consumption (NMEC) to estimate savings••	Percent of total projects utilizing Normalized Metered Energy Consumption (NMEC) to estimate savings	Commercial Sector (C)	2019	N/A	N/A	N/A	BayREN did not have a commericial program in 2017, so no data to report on	Numerator: Total number of custom projects in the CMPA utilizing NMEC to estimate savings. Denominator: Total number of projects in the CMPA. See Key	"Projects" for this metric refers to custom projects. Data will be collected from the CMPA (Custom Measure and Project Archive)
BayR	EN A	406	C7i	N2	Percer	nt	NMEC	Indicator	C-N2[Indicator] Fraction of total savings (gross kWh and therm) derived from NMEC analysis••	Percent of total savings (gross kWh and therm) derived from NMEC analysis	Commercial Sector (C)	N/A - N Indicator	/A - Indicator	N/A - Indicator	N/A - Indicator	BayREN did not have a commericial program in 2017, so no data to report on	Definitions Per CAEECC Meeting: "Fraction of total custor savings derived from NMEC analysis" Data from CMPA Mona to check	
5 BayR	EN A	406	C8i	CS	Percer	nt S	Satisfaction	Indicator	C-CS[Indicator] Improvement in customer satisfaction••	Percent Improvement in customer satisfaction	Commercial Sector (C)	N/A - N Indicator	/A - Indicator	N/A - Indicator	N/A - Indicator	BayREN did not have a commericial program in 2017, so no data to report on	Per CAEECC Meeting: M&E will develop and field a consistent survey instrument annually.	Survey development process has not been determined but could be led by PA Measurement & Evaluation staff, with ED oversight; once developed, survey could be fielded continuously as part of PA program implementation. Survey could be ready as soon as Q4 of 2018 for implementation during 2019, metrics data could be available for the 2019 reporting year
6 BayR	EN A	406	C8i	TS	Percer	nt S	Satisfaction	Indicator	C-TS[Indicator] Improvement in trade ally satisfaction••	Percent Improvement in trade ally satisfaction	Commercial Sector (C)	N/A - N Indicator	/A - Indicator	N/A - Indicator	N/A - Indicator	BayREN did not have a commericial program in 2017, so no data to report on	Per CAEECC Meeting: M&E will develop and field a consistent survey instrument annually.	Survey development process has not been determined but could be led by PA / Measurement & Evaluation staff, with ED oversight; once developed, survey could be fielded continuously as part of PA program implementation. Survey could be ready as soon as Q4 of 2018 for implementation during 2019, metrics data could be available for the 2019 reporting year
BayR	EN A	406	C9i	F1	Percer	nt	Investment in energy efficiency	Indicator	C-F - [Indicator] Fraction of total investments made by ratepayers and private capital••	Percent of total investments made by ratepayers and private capital	Commercial Sector (C)	N/A - N Indicator	/A - Indicator	N/A - Indicator	N/A - Indicator	BayREN did not have a commericial program in 2017, so no data to report on	Numerator: Dollars invested in EE through ratepayer-funded finance programs (minu other incentive programs) Denominator: Total dollars invested in EE (sum of both private	IS
2 BayR	EN A	A10	CS1	S1	Net GV	Vh	S1: Energy Savings	Metric	Net Energy Savings: GWH, M Therms and MW (demand)	Net GWh savings	Codes & Standards (CS)	N/A - Indicator	N/A	N/A	N/A	N/A BayREN does not claim any savings for Codes and Standards Program	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year savings.

dshee t				Vethod Code	Units of	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline	2017 Reporting Voc	2017	2017 Denominator	• BayREN Notes, assumptions, methodology Data Source	Methodology	E	Proxy Explan ation
<u>Index</u> 283			CS1		Vet MMTherms	S1: Energy	Metric	Net Energy Savings: GWH, M Therms and MW (demand)	Net MMTherms savings	Codes & Standards (CS)	<u>Year</u> 2016	<u>Reporting Yea</u>	N/A	N/A	N/A BayREN does not claim any savings for Codes and Standards Program	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year savings.	
284	BayREN	A10	CS1	S1	Net MW	S1: Energy Savings	Metric	Net Energy Savings: GWH, M Therms and MW (demand)	Net MW savings	Codes & Standards (CS)	2016	N/A	N/A	N/A	N/A BayREN does not claim any savings for Codes and Standards Program	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year savings.	
285	BayREN	A10	CS2	1	Count	Advocacy- Building	Metric	Number of measures supported by CASE studies in rulemaking cycle (current work)	Number of measures supported by CASE studies in rulemaking cycle (current work)	Codes & Standards (CS)	2016	N/A	N/A	N/A	BayREN does not perform an Advocacy work and this metric is for SW codes	Measures supported by CASE	Baseline and targets for measures supported are for 3 year cycle rather than annual.	
286	BayREN	A10	CS2	2	Count	Advocacy- Building	Metric	Number of measures adopted by CEC in rulemaking cycle (indicator of past work)	Number of measures adopted by CEC in rulemaking cycle (indicator of past work)	Codes & Standards (CS)	2016	N/A	N/A	N/A	BayREN does not perform an Advocacy work and this metric is for SW codes	Measures adopted by CEC	Baseline and targets for measures supported are for 3 year cycle rather than annual.	
287	BayREN	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)	2016	N/A	N/A	N/A	BayREN does not perform an Advocacy work and this metric is for SW codes	T-20 measures supported by CASE	Baseline is annual. Targets for measures supported are for 3 year cycle rather than annual. 2017 chosen as baseline since 2016 was zero.	
288	3ayREN	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)	2017	N/A	N/A	N/A	BayREN does not perform an Advocacy work and this metric is for SW codes	Measures adopted by CEC	Baseline is annual. Targets for measures adopted are for 3 year cycle rather than annual.	
289	3ayREN	A10	CS4	1	Count	Advocacy- Federal	Metric	Number of federal standards adopted for which a utility advocated (IOUs to list advocated activites)	Number of federal standards adopted for which a utility advocated (IOUs to list advocated activites)	Codes & Standards (CS)	2016	N/A	N/A	N/A	BayREN does not perform an Advocacy work and this metric is for SW codes	Standards adopted	Baselines and targets are annual. Any federal standards based upon Title 20 that were adopted will still be included in the federal count.	
290	3ayREN	A10	CS4	2	Count	Advocacy- Federal	Metric	Percent of federal standards adopted for which a utility advocated (#IOU supported / # DOE adopted)	Percent of federal standards adopted for which a utility advocated (#IOU supported / # DOE adopted)	_‡ Codes & Standards (CS)	2016	N/A	N/A	N/A	BayREN does not perform an Advocacy work and this metric is for SW codes	# IOUs supported ÷ # DOE adopted	Baselines and targets are annual.	

lshee t ndex PA	AttA Page	AttA Order	Method	Units of Measurement	: Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	2017 Reporting Yea	2017 r. Numerator	2017 Denominator	BayREN Notes, assumptions, methodology Data Source	Methodology	Key Definitions	Pro Exp ati
291 BayREN		CS5	1	Count	Reach Codes		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)		N/A	N/A	N/A	BayREN does not track reach codes, as the IOUs track and report in SW metrics	Reach Code ordinance implemented		
292 BayREN	A11	CS6	1	Count	Compliance Improvemen t		Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of training activities	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of training activities	Codes & Standards (CS)	2016	N/A	N/A	N/A	Not applicable to BayREN	Number of training activities	118 live training sessions and 20 webinar in 2017; short, mid, and long-term target are annual	
293 BayREN	A11	CS6	2	Count	Compliance Improvemen t		Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of participants	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of participants	Codes & Standards (CS)	2017	N/A	N/A	N/A	Not applicable to BayREN	Number of participant	s 3000 attendees for live training and 600 attendees for webinars in 2017; short, mid, and long-term targets are annual. Attendees will be shown by major segment (i.e., building officials, builders, architects, HERS raters) and target size o each segment will be provided during firs metrics reporting.	s, of
294 BayREN	A11	CS6	3	Score	Compliance Improvemen t		Increase in code compliance knowledge pre/post training	Increase in code compliance knowledge pre/post training	Codes & Standards (CS)	2017	N/A	N/A	N/A	Not applicable to BayREN	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 shorter training sessions). Questionnaires will be made available during the first metrics reporting.	ed
95 BayREN	A11	CS6R	1	Percent	Compliance Improvemen t		energy code compliance within	The percentage increase in closed permits for building projects triggering energy code compliance within participating jurisdictions	Codes & Standards (CS)	2018	N/A	N/A	N/A	For this metric, BayREN intends to develop a project in partnership with one or two jurisdictions to increase the percentage of closed permits for a particular type of building project triggering energy code compliance. At this time, we have not identified either the participating jurisdictions or the type(s) of project that will be addressed. BayREN estimates a cost of approximately \$150,000 in 2018 and 2019 to conduct a literature review, assess data availability, carry out initial data collection and analysis, analyze jurisdiction- specific data once the participating jurisdictions have been identified, develop the project, establish the baseline and targets, and develop a data tracking system, although the exact cost is still to be determined. Additional costs would likely be incurred to implement the project. The initial phase of this study will be to conduct a literature review and assessment of sources of building permit data, and BayREN is already working with a consultant to finalize a scope of work for that initial phase. Additional follow-on studies would occur to collect and analyze data, including jurisdiction-specific data, to help design the project, to determine a reasonable approach and set up a system for tracking progress on this metric over time, and to establish the baseline and targets. The territory will be narrowed as work progresses and as jurisdictional partners are found, and the sample size will be determined as part of that process.We anticipate having the baseline and targets by the end of 2019.	or CEC rmit deport: ode ent, rnace s on rd, 01• 13 bating in % of mitted		
296 BayREN	A11	CS6Ri	1	Count	Compliance Improvemen t		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 - Indicato	N/A - Indicator	N/A - Indicator	Number of City of County local government jurisdictions participating. These are Indicators and not metrics. Per the Decision (D.18-05-041) on the Business Plans, Program Administrators do not have to provide data on Indicators only definitions and methodologies, which can be found in the ED Template.		"Energy Policy Forum": a BayREN hosted event addressing energy use, energy efficiency, and or Title 24 compliance	k

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t		AttA	AttA	Method	Units of		Metric/				Baseline	2017	2017	2017					
Inde	PA	Page	Orde	Code	Measurement	Metric Type	Indicator	Business Plan Att A Description	Metric	Sector	Year	Reporting Year	Numerator	Denominator	BayREN Notes, assumptions, methodology	Data So	Source	Methodology	Key De
															Numerator: Number of City or County local government jurisdictions	5			"Energ
															participating; Denominator: Number of City of County local				event
									Number and percent of						government jurisdictions in BayREN territory (110).				efficie
						Compliance		Number and percent of jurisdictions with	jurisdictions with staff		N/A -		N/A -		These are Indicators and not metrics. Per the Decision (D.18-05-041)				
297	BayREN	A11	CS6R	i 1	Percent	Improvemen	Indicator	staff participating in an Energy Policy	participating in an Energy	Codes & Standards (CS)	Indicator	N/A - Indicator	Indicator	N/A - Indicator					
						t		Forum	Policy Forum						data on Indicators only definitions and methodologies, which can be	2			
															found in the ED Template.				
 															Number of City of Country local covernment invitations reactions time				
															Number of City of County local government jurisdictions participating These are Indicators and not metrics. Per the Decision (D.18-05-041)	-			"Energ
															on the Business Plans, Program Administrators do not have to provid				BayRE
															data on Indicators only definitions and methodologies, which can be				service activit
						Compliance		Number and percent of jurisdictions	Number and percent of				NI / A		found in the ED Template.	:			impler
298	BayREN	A11	CS6R	i 2	Count	Improvemen	Indicator	receiving Energy Policy technical	jurisdictions receiving Energy	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	N/A -	N/A - Indicator	Tourid in the ED Template.				efficie
						t		assistance.	Policy technical assistance.		Indicator		Indicator						24 or o
																			ordina
																			and er
																			requir
															Numerator: Number of City or County local government jurisdictions	2			"Energ
															participating; Denominator: Number of City of County local	5			BayRE
															government jurisdictions in BayREN territory (110).				service
															These are Indicators and not metrics. Per the Decision (D.18-05-041)				activit
						Compliance		Number and percent of jurisdictions	Number and percent of		N/A -		N/A -		on the Business Plans, Program Administrators do not have to provid				impler
299	BayREN	A11	CS6R	i 2	Percent	Improvemen	Indicator	receiving Energy Policy technical	jurisdictions receiving Energy	Codes & Standards (CS)	Indicator	N/A - Indicator	Indicator	N/A - Indicator	data on Indicators only definitions and methodologies, which can be				efficie
						t		assistance.	Policy technical assistance.		malcator		malcator		found in the ED Template.				24 or (
															•				ordina
															Number of buildings.				"Enhai
																			BayRE
															These are Indicators and not metrics. Per the Decision (D.18-05-041)				improv
						Compliance		Buildings receiving enhanced code	Buildings receiving enhanced						on the Business Plans, Program Administrators do not have to provid	de			data":
200	BayREN	۸11	CS6R		Count	Compliance Improvemen	Indicator	compliance support and delivering	code compliance support and delivering compliance data to	Codos & Standards (CS)	N/A -	N/A - Indicator	N/A -	N/A - Indicator	data on Indicators only definitions and methodologies, which can be	9			compl
500	Daynen	AII	COUR	5	Count	improvemen +	mulcator	compliance data to program evaluators	delivering compliance data to		Indicator	N/A - mulcator	Indicator	N/A - mulcator	found in the ED Template.				Forms
						t			program evaluators										softwa

	Proxy
	Explan
Key Definitions	ation
"Energy Policy Forum": a BayREN hos	ted
event addressing energy use, energy	
efficiency, and or Title 24 compliance	
"Energy Policy technical assistance":	
BayREN facilitated technical assistance	e
services to assist with local governme	
activities including but not limited to	
implementation of energy and energy	/
efficiency related requirements for Ti	
24 or development of local policies a	
ordinances that meet or exceed energy	
and energy efficiency related	57
requirements of Title 24	
"Energy Policy technical assistance":	
BayREN facilitated technical assistance	e
services to assist with local governme	
activities including but not limited to	
implementation of energy and energy	/
efficiency related requirements for Ti	
24 or development of local policies a	
ordinances that meet or exceed Title	
"Enhanced code compliance support'	':
BayREN facilitated compliance	
improvement services. "Compliance	
data": may include but is not limited	to
completed CEC Title 24 Part 6 Compli	
Forms and CBECC or other complianc	
software calculated compliance marg	ins