

County of Los Angeles INTERNAL SERVICES DEPARTMENT

1100 North Eastern Avenue Los Angeles, California 90063

> Telephone: (323) 267-2101 FAX: (323) 264-7135

"To enrich lives through effective and caring service"

September 04, 2018

Advice No. # 8-E/8-G (CPUC Identification #940)

Public Utilities Commission of the State of California

SUBJECT: COMPLIANCE FILING REGARDING THE SOUTHERN CALIFORNIA

REGIONAL ENERGY NETWORK 2019 ENERGY EFFICIENCY PROGRAM PORTFOLIO CHANGES AND FUNDING REQUEST

Purpose

The Southern California Regional Energy Network (SoCalREN) submits its 2019 Energy Efficiency (EE) portfolio budget by Tier 2 Advice Letter (AL) to the California Public Utilities Commission (Commission), in compliance with *Decision Re Energy Efficiency Goals for 2016 and Beyond and Energy Efficiency Rolling Portfolio Mechanics*, the "Rolling Portfolio decision," (D.15-10-028)¹ and the *Decision Addressing Energy Efficiency Business Plans* (D.18-05-041)² and guidance from the Commission Energy Division (ED) Staff. This Advice Letter provides budget, programmatic adjustments and updated supporting documentation for energy efficiency programs the SoCalREN will offer in 2019.

The SoCalREN requests that the Commission approve its 2019 EE Budget, effective as of January 1, 2019. The SoCalREN also requests the approval to discontinue certain EE programs and sub-programs as detailed below.

Background

1. Filing Requirements

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

² D. 18-05-041, Ordering Paragraph (OP) 41-45.

D.15-10-028 requires each EE Program Administrator (PA) to file a Tier 2 advice letter with the PA's annual EE budget for the coming year in September of each year³ and requires such advice letters to contain:

- Portfolio cost-effectiveness statement; and
- Application summary tables with forecast budgets and savings by sector and program/intervention.

Furthermore, D.18-05-041 provided additional guidance to PAs regarding their submittal of their Annual Budget Advice Letters (ABAL). D.18-05-041 requires that the Regional Energy Networks (REN) ABAL include the following:

- Forecasted energy savings goals that must meet or exceed the annual energy savings targets included in the PA's business plan; and
- Forecasted budget that does not exceed the PA's annual budget in the approved business plans, or (if applicable) the revised annual budget in this ABAL.⁴

2. Contents of this Filing

The SoCalREN's advice letter is organized as follows:

- SoCalREN 2019 EE portfolio
 - o 2019 EE Portfolio Budget
 - o 2019 EE Portfolio Cost Effectiveness
 - o 2019 EE Portfolio Energy Savings
- 2019 Proposed Program and Portfolio Changes
 - Portfolio Level Changes
 - Program Level Changes
- Strategies to Increase Cost-Effectiveness

In addition to the information above, the SoCalREN's 2019 ABAL includes the following materials:

- Attachments
 - Attachment A SoCalREN 2019 ABAL Tables
 - Attachment B CEDARS Filing Confirmation
 - Attachment C 2017 Sector-Level Metrics

SoCalREN's 2019 EE Portfolio

1. 2019 EE Portfolio Budget

³ D.15-10-028, ordering paragraph 4.

⁴ D.18-05-041, p. 134.

In the SoCalREN's 2019 EE Portfolio budget, the SoCalREN requests a total portfolio budget of \$20,742,000 and an evaluation, measurement and verification ("EM&V") budget of \$327,613. The breakdown of this budget request is reflected in Table 1 below.

Table 1. Proposed 2019 Annual Budget

Sector	2019 Authorized Budget⁵	2019 Proposed Budget
A: Residential	\$6,671,000	\$6,721,000
B: Public Sector	\$11,563,000	\$11,500,000
C: Financing	\$2,224,000	\$2,237,000
D: WE&T	\$284,000	\$284,000
Sub Total	\$20,742,000	\$20,742,000
EM&V ⁶		\$327,613
Total	\$20,742,000	\$21,069,613

2. 2019 EE Portfolio Cost-Effectiveness

Table 2 below provides the SoCalREN's Total Resource Cost (TRC) test and Program Administrator Cost (PAC) test for its 2019 EE portfolio.⁷

Table 2. Cost-Effectiveness

Sector/Program	Forecast 2019			
	TRC	PAC		
Total Portfolio	0.27	0.29		

3. 2019 EE Portfolio Energy Savings

Table 3 below reflects the SoCalREN's 2019 forecasted energy savings.

Table 3. SoCalREN 2019 Forecasted Energy Savings (Net)

Sector/Program	kWh	kW	Therms
Residential	5,474,356	735	154,741
Public ⁸	0	0	0
Portfolio	5,474,356	735	154,741

⁵ D.18-05-041, p. 105.

⁶ EM&V funding is proposed as authorized under D.16-08-019, OP 16.

⁷ The SoCalREN's portfolio TRC includes all resource and non-resource programs included in this ABAL filing.

⁸ The SoCalREN Public Agency NMEC program is included in this 2019 ABAL filing as a resource program and within the SoCalREN's 2019 Portfolio TRC. However, due to NMEC claimable savings guidelines, savings for this program are not forecasted to be realized until 2020.

Proposed Program and Portfolio Changes

1. SoCalREN 2019 Portfolio-Level Changes

The SoCalREN's 2019 EE Portfolio continues to leverage well-established successes that were originally adopted during the inception of the RENs in D.12-11-015 and conforms to the authorization adopted in D.18-05-041. The SoCalREN's 2019 EE portfolio is a continuation of the SoCalREN's commitment to adopt a "long-term" path towards administrative efficiency and its endeavor to find areas that maximize outcomes, customer benefits, and program performance, while minimizing costs. The SoCalREN's 2019 EE portfolio will include practices such as:

- streamlining reporting processes, instituting more internal detailed budgetary tracking reports, standardizing infographics and other data-sharing and marketing collateral, maximizing web-based tools; and
- identifying administrative tasks that can be automated or eliminated so long as regulatory compliance or customer support is not compromised.

In addition, SoCalREN has proposed in this advice filing some performance adjustments to its existing portfolio that provide for increasing administrative efficiencies, and include innovative strategies that would target deeper energy savings in an effort to provide a larger contribution to the State's aggressive energy efficiency goals. Furthermore, the SoCalREN's 2019 portfolio will continue to utilize its successful "peer-driven" approach to leverage its public agency programs with a focus on serving hard-to-reach communities and disadvantaged communities in both its public and residential sectors.

2. SoCalREN 2019 Program Level Changes

The SoCalREN has utilized the first Business Plan year of 2018 (1) to conduct deep program performance assessments and program refinements, and (2) to revise its approach to marketing, education and outreach (ME&O) toward greater analytics, strategies and tactics that lend themselves to heightened traceability and may provide a more reliable nexus between ME&O action and programmatic outcomes.

The SoCalREN 2019 portfolio includes programs that comply with D.12-11-015 REN threshold criteria and conform to the sector approach as adopted by D.18-05-041. The SoCalREN's 2019 proposed portfolio also reflects the sunset of programs deemed either (1) unsuccessful in achieving cost-effective savings, or (2) to have attained all objectives over successive bridge years.

a. Proposed Programs and Subprograms to be cancelled:

The SoCalREN is requesting approval to discontinue programs that have been deemed not cost-effective, these include the Single Family (SF) Energy Upgrade California® Home Upgrade program (HUP) and its associated sub programs: Green Building Labeling, Single Family Local Marketing and Outreach, HUP Loan Loss Reserve and Low-Income SF HUP. For the past three years of implementation the SF HUP (and its associated sub-programs) have held an extremely low TRC and achieved relatively low savings. Specifically, the SoCalREN's SF HUP TRC and energy savings were:

SF Home Upgrade Program	2016	2017
TRC	0.14	0.08
Electric Savings (kWh)	533,990	255,650
Program Cost (\$)	2,672,156	2,215,161

In addition, the SoCalREN is proposing to discontinue its Public Building Loan Loss Reserve and Non-Residential PACE (Property Assessed Clean Energy). These two finance subprograms have achieved all objectives over successive bridge years and shown little interest from the market in the last year.

Last, the SoCalREN's sub-program Regional Climate Action and Energy Plan - Energy Atlas is also proposed to be discontinued per D.18-05-041 direction. Per D.18-05-041, the utility program administrators will be selecting among themselves a lead to oversee statewide deployment of the Energy Atlas and competitively solicit a third party to implement the deployment. This deployment is anticipated in 2019 thus the SoCalREN did not include any funding provision within its 2019 ABAL filing.

_

⁹ D.18-05-041, OP. 32.

b. New and Expanded Programs

As a direct result of the SoCalREN's 2019 portfolio optimization, resources allocated to programs proposed to be discontinued have been adjusted in this ABAL filing to fund cost-effective programs and innovative offerings. Single family residential resources will be shifted to maximize the SoCalREN's cost-effective residential offering (specifically, the SoCalREN's Multifamily program). In addition, the SoCalREN's residential budget also includes an allocation to fund its new multifamily companion sub-program, the SoCalREN's Residential Community Coordinator. The SoCalREN's Multifamily Program will continue to provide audits and improvement incentives to building owners for comprehensive energy efficiency upgrades while the Residential Community Coordinator sub-program will serve as a companion program to the SoCalREN Multifamily Program and will assist the hard-to-reach multifamily market by providing a variety of services to help this targeted segment overcome the traditional barriers to completing building energy upgrades.

The SoCalREN's 2019 EE Portfolio also includes cost-efficient financing solutions for both public agency customers and multifamily property owners. These solutions will assist program participants in overcoming financial barriers and help drive greater adoption of deep comprehensive retrofits. The SoCalREN's proposed finance budget includes two specific programs to serve as catalysts for multifamily and public agency projects. These new financing programs include the SoCalREN's Residential Loan Loss Reserve (LLR) and its Public Agency Revolving Loan Fund (RLF). The SoCalREN's Residential LLR program will provide credit-risk enhanced financing for multifamily property owners who are actively seeking "whole-building" retrofits and will primarily target customers with the most need who are (1) hard to reach and (2) have properties within Disadvantaged Communities (DACs). The SoCalREN RLF is designed to support upgrades of public agency buildings and facilities with an emphasis on supporting projects that serve DACs. RLF loans will serve as short-term construction financing and help under primarily two scenarios: bridge financing for approved On-Bill Financing (OBF) provided by the utility after project completion and bridge financing for approved but un-budgeted agency projects that would otherwise wait for budget allocation.

Lastly, with an increasing emphasis on the public sector and leveraging the SoCalREN's "peer-driven" approach, the SoCalREN will be introducing a new NMEC Public Agency program and expand its Energy Efficiency Project Delivery Program (formerly known as SoCalREC) to include a sub-program, DER DAC Project Delivery Program, which will offer education and outreach regarding all distributed energy resources (DER) for public agencies within DACs.

These two new programs will work to further engage Public Agencies and help drive not only deeper energy savings within the sector but deeper reductions in greenhouse gas (GHG) emissions thus helping the state meet its aggressive GHG-reduction objectives.

Strategies for increased cost-effectiveness

As mentioned above, the SoCalREN's 2019 EE Portfolio and budget continues to be committed to increasing its portfolio cost-effectiveness while meeting the state's long-term objectives. Although not currently required to meet a TRC threshold, the SoCalREN believes that continued program performance enhancement can contribute and assist in meeting a path towards increased cost-effectiveness. In addition to the portfolio strategies to increase administrative and cost efficiencies described above, the SoCalREN will also institute program-level strategies to increase cost-effectiveness for 2019. These strategies include but are not limited to:

Multifamily

- Utilize innovative tools and tactics to increase participation while improving costeffectiveness
- Leverage approaches that support a long-term customer journey for multifamily property owners
- Employ community-based relationships and networks to influence hard-to-reach and disadvantaged communities
- Leverage County analytics and existing databases to identify key market targets and programmatic improvements
- Implement cost-efficient financing solutions for multifamily property owners, to help drive a greater adoption of deep comprehensive retrofits

Public Sector

- Implement more cost-effective innovative approaches such as NMEC to drive deeper retrofit savings
- Continue to utilize companion programs offered by partner IOUs to develop comprehensive work scopes for public agencies
- Utilize the SoCalREN's "peer-driven" approach to drive program performance and reduce the program's customer participation costs so that deeper energy savings can be achieved
- Implement cost-efficient financing solutions for Public Agency customers, to help drive a greater adoption of deep comprehensive retrofits

Protests

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. There is no restriction on who may file a protest. The address for mailing or delivering a protest to the Commission is:

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

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

Minh Le
Energy and Environmental Services
General Manager
County of Los Angeles Office
1100 North Eastern Avenue
Los Angeles, CA 90063-3200
(323) 267-2006
MSLe@isd.lacounty.gov

Effective Date

Per D.14-10-046 this Advice Letter is subject to Energy Division disposition and should be classified as Tier 2 (effective after staff approval) pursuant to General Order (GO) 96-B. The SoCalREN respectfully requests that this Advice Letter be made effective on October 4, 2018, which is 30 calendar days after the date filed.

Notice

A copy of this Advice Letter is being sent to the Commission's service lists for R.13-11-005 and A.17-01-013 (et al.). For changes to R.13-11-005 or A.17-01-013 (et al.) service lists, please contact the Commission's Process Office at 415-703-2021 or by electronic mail at process_office@cpuc.ca.gov.

Respectfully Submitted,

/s/ Minh Le
Minh Le
Energy and Environmental Services General
Manager

County of Los Angeles Office 1100 North Eastern Avenue Los Angeles, CA 90063-3200 (323) 267-2006 MSLe@isd.lacounty.gov

CALIFORNIA PUBLIC UTILITIES COMMISSION

ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)								
Company name/CPUC Utility No. Southern California Regional Energy Network (#940)								
Utility type: Contact Person: Minh Le								
ĭ ELC	Phone #: <u>(323) 267</u> -							
□ PLC □ HEAT □ WATER	E-mail: <u>MSLe@i</u>	sd.lacounty.gov						
EXPLANATION OF UTILITY T	YPE	Tier: $\Box 1 \blacksquare 2 \Box 3$						
ELC = Electric $GAS = Gas$ $PLC = Pipeline$ $HEAT = Heat$	WATER = Water							
Advice Letter (AL) #: <u>8-E/8-G</u>								
Subject of AL: Compliance Filing R Efficiency Program Portfolio Changes		California Regional Energy Network 2019 Energy						
		nergy Efficiency						
ney words (choose from er e e having)	00mpmanee, 21	lergy Emolency						
AL filing type: □ Monthly □ Quarter	y □ Annual ⊠ One	e-Time 🗆 Other						
If AL filed in compliance with a Comp D.15-10-028 and D.		te relevant Decision/Resolution #:						
Does AL replace a withdrawn or rejec	ted AL? If so, identi	fy the prior AL <u>N/A</u>						
Summarize differences between the A	L and the prior with	drawn or rejected AL¹: N/A						
Resolution Required? $lacksquare$ Yes \Box No								
Requested effective date:10/4/20)18	No. of Tariff Sheets: <u>N/A</u>						
Estimated system annual revenue effe	ect: (%):N	<u>/A</u>						
Estimated system average rate effect								
When rates are affected by AL, includ (residential, small commercial, large)		showing average rate effects on customer classes nting).						
Tariff schedules affected:	<u>N/A</u>							
		ram Implementation Plans and Supporting as in compliance with D.15-10-028 and D.18-05-						
Pending advice letters that revise the	same tariff sheets:_							
-		is AL are due no later than 20 days after the ne Commission, and shall be sent to:						
CPUC, Energy Division	Utility J	Info (including e-mail)						
Attention: Tariff Unit	Minh							
505 Van Ness Ave., 4th Flr.		gy and Environmental Services ral Manager						
San Francisco, CA 94102		ty of Los Angeles						
EDTariffUnit@cpuc.ca.gov	1100	North Eastern Avenue						
		ngeles, CA 90063-3200 @isd.lacounty.gov						
	MISLE	Clouded and a so t						

 $^{^{\}mbox{\tiny 1}}$ Discuss in AL if more space is needed.

Advice 8-E/8-G September 4, 2018

ATTACHMENT A: SoCaIREN 2019 ABAL Tables

SoCalREN FORECAST ENERGY SAVINGS (Net)

		SoCalREN	SoCalREN	SoCalREN forecast		
Sector	Program Year Budget	forecast kWh	forecast kW	therms (MM)		
Residential	\$6,721,000	5,474,356	735	0.155		
Commercial	\$0	na	na	na		
Industrial	\$0	na	na	na		
Agriculture	\$0	na	na	na		
Emerging Tech	\$0	na	na	na		
Public	\$11,500,000	-	-	-		
Codes and Standards	\$0	na	na	na		
WE&T	\$284,000	na	na	na		
Finance	\$2,237,000	na	na	na		
OBF Loan Pool	\$0	na	na			
Subtotal	\$20,742,000	5,474,356	735	0.155		
PA EM&V	\$327,613					
Total SoCalREN PY Spending Budget ¹	\$21,069,613					
Uncommitted and Unspent Carryover balance ²	\$4,845,007					
Total SoCalREN PY Budget Recovery Request ³	\$16,224,606					
Authorized PY Budget Cap (D.18-05-041)	\$20,740,920					
Forecast PY TRC	0.27					
Forecast PY PAC	0.29					

¹ Total proposed program year budget spending, including uncommitted unspent carryover

² The balance of unspent uncommitted must reflect the total unspent uncommitted starting Jan 1 2018 through Dec 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.

³ Amount of funds to be collected for the Program Year - Line 18 less Line 19

SoCalREN Ani	nual Rolling Do	rtfolio Budget	Forecast -	True-un

Sector	2018**	2019	2020	2021	2022	2023	2024	2025	Total
Residential	\$6,540,000	\$6,721,000	\$6,804,000	\$6,940,000	\$7,079,000	\$7,221,000	\$7,365,000	\$7,512,000	\$56,182,000
Commercial	0	0	0	0	0	0	0	0	0
Industrial	0	0	0	0	0	0	0	0	0
Agriculture	0	0	0	0	0	0	0	0	0
Emerging Tech	0	0	0	0	0	0	0	0	0
Public	\$9,815,000	\$11,500,000	\$11,794,000	\$12,030,000	\$12,270,000	\$12,516,000	\$12,766,000	\$13,022,000	\$95,713,000
Codes and Standards	0	0	0	0	0	0	0	0	0
WE&T	\$258,000	\$284,000	\$312,000	\$343,000	\$378,000	\$416,000	\$457,000	\$503,000	\$2,951,000
Finance	\$2,180,000	\$2,237,000	\$2,268,000	\$2,313,000	\$2,360,000	\$2,407,000	\$2,455,000	\$2,504,000	\$18,724,000
OBF Loan Pool	-	-	-	-	-	-	-	-	-
Subtotal									-
EM&V	0	\$327,613	\$327,613	\$327,613	\$327,613	\$327,613	\$327,613	\$327,613	
Total Portfolio Program Year SoCalREN Budget	\$ 18,793,000 \$	20,742,000 \$	21,178,000 \$	21,626,000 \$	22,087,000 \$	22,560,000 \$	23,043,000 \$	23,541,000 \$	173,570,000
Total Authorized Portfolio PY Budget Cap	\$ 18,793,000 \$	20,742,000 \$	21,178,000 \$	21,626,000 \$	22,087,000 \$	22,560,000 \$	23,043,000 \$	23,541,000 \$	173,570,000
Forecast Portfolio PY TRC	0.19	0.27	0.29	0.31	0.32	0.33	0.34	0.35	
Forecast Portfolio PY PAC	0.21	0.29	0.30	0.33	0.35	0.36	0.37	0.38	

^{** &}quot;Reset" 2018 budget at or below 2018 annual budget approved in Business plan Decision. "True-up" years 2019-2025.

Annual Rolling Portfolio Savings Forecast - True-up (kWh)

Sector	2018	2019	2020	2021	2022	2023	2024	2025
Residential	2,881,748	5,474,356	5,541,961	5,652,735	5,765,953	5,881,614	5,998,904	6,118,638
Commercial	n/a							
Industrial	n/a							
Agriculture	n/a							
Emerging Tech	n/a							
Public	n/a							
Codes and Standards	n/a							
WE&T	n/a							
Finance	n/a							
OBF Loan Pool	n/a							
Total Forecast Portfolio Savings	2,881,748	5,474,356	5,541,961	5,652,735	5,765,953	5,881,614	5,998,904	6,118,638
CPUC Goal*	n/a	n/a						
% of Goal*	n/a							

TBU

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

Annual Rolling Portfolio Savings Forecast - True-up (kW)

Sector	2018	2019	2020	2021	2022	2023	2024	2025
Residential	685	735	744	759	774	790	805	822
Commercial	n/a							
Industrial	n/a							
Agriculture	n/a							
Emerging Tech	n/a							
Public	n/a							
Codes and Standards	n/a							
WE&T	n/a							
Finance	n/a							
OBF Loan Pool	n/a							
Total Forecast Portfolio Savings	685	735	744	759	774	790	805	822
CPUC Goal*	n/a	n/a						
% of Goal*	n/a							

TBU

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

Annual Rolling Portfolio Savings Forecast - True-up (therms)

Sector	2018	2019	2020	2021	2022	2023	2024	2025
Residential	96,632	154,741	156,652	159,783	162,983	166,253	169,568	172,953
Commercial	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Industrial	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Agriculture	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Emerging Tech	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Public	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Codes and Standards	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WE&T	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Finance	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
OBF Loan Pool	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Forecast Portfolio Savings	96,632	154,741	156,652	159,783	162,983	166,253	169,568	172,953
CPUC Goal*	n/a	n/a						
% of Goal*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

TBU

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

Authorized PA Budgets for 2018-2025

	PG&E	SCE	SDG&E	SoCalGas	MCE	SoCalREN	BayREN	Total
2018	\$398,590,433	\$233,027,000	\$116,456,309	\$98,812,573	\$8,532,000	\$18,793,099	\$22,738,000	\$896,949,414
2019	\$390,634,566	\$253,364,000	\$116,456,309	\$101,961,000	\$8,532,000	\$20,740,920	\$23,950,000	\$915,638,795
2020	\$376,627,905	\$271,852,000	\$116,456,309	\$104,064,000	\$12,404,000	\$21,178,362	\$24,615,000	\$927,197,576
2021	\$376,627,905	\$266,803,000	\$116,456,309	\$106,195,000	\$12,404,000	\$21,626,987	\$23,216,000	\$923,329,201
2022	\$376,627,905	\$274,785,000	\$116,456,309	\$108,356,000	\$10,998,000	\$22,086,959	\$23,720,000	\$933,030,173
2023	\$376,627,905	\$283,007,000	\$116,456,309	\$110,548,000	\$10,998,000	\$22,558,944	\$24,605,000	\$944,801,158
2024	\$376,627,905	\$291,476,000	\$116,456,309	\$112,771,000	\$10,998,000	\$23,043,313	\$24,629,000	\$956,001,527
2025	\$376,627,905	\$300,198,000	\$116,456,309	\$115,028,000	\$10,870,000	\$23,540,840	\$25,503,000	\$968,224,054
TOTAL (excluding CCA/REN								
for IOU PAs)	\$3,048,992,429	\$2,174,512,000	\$931,650,472	\$857,735,573	\$85,736,000	\$173,569,424	\$192,976,000	\$7,465,171,898

Advice 8-E/8-G September 4, 2018

ATTACHMENT B: CEDARs Filing Confirmation

CEDARS Filing Confirmation

The Appendix is also available on CEDARS at this link: https://cedars.sound-data.com/

Supplemental information on the SoCalREN's portfolio, including Program Implementation
Plans and forecast data, is available at the same link.

Advice 8-E/8-G - September 4, 2018

CEDARS FILING SUBMISSION RECEIPT

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

PA: Southern California Regional Energy Network (SCR)

Filing Year: 2019

Submitted: 08:06:59 on 01 Sep 2018

By: Lujuana Medina

Advice Letter Number: 8-E/8-G

* Portfolio Filing Summary *

- TRC: 0.27 - PAC: 0.29

- TRC (no admin): 1.08 - PAC (no admin): 1.60

- RIM: 0.29

- Budget: \$20,742,000.00

- * Programs Included in the Filing *
- SCR-RES-A1: Multifamily Program
- SCR-RES-A2: Residential Community Coordinator
- SCR-PUBL-B1: Energy Efficiency Project Delivery Program
- SCR-PUBL-B2: DER DAC Project Delivery Program
- SCR-PUBL-B3: Public Agency NMEC Program
- SCR-FIN-C1: Public Agency Revolving Loan Fund
- SCR-FIN-C2: Residential Loan Loss Reserve
- SCR-WET-D1: Workforce Education & Training Program

Advice 8-E/8-G September 4, 2018

ATTACHMENT C: 2017 Sector-Level Metrics

PA	AttA Page	AttA Order	Method Code	Metric Type	Metric/Indi cator	Business Plan Att A Description	Units of Measurement	Sector	Baseline Year	Baseline Number	2017 Reporting Year	Numerator (for metrics/indicators where unit of measurement is	Denominator (for metrics/indicator s where unit of measurement is		t Term Target (2018	·	(2021-2023)	
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual kW gross	Portfolio Level (PL)- All	2016	1,168	1,732	NA	NA	2018 4,655	2019 4,588	2020 763	3,944	2,994
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric and demand savines (ernss and net) •• PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual kW net	Portfolio Level (PL)- All	2016	876	1,370	NA	NA	3,259	3,202	572	2,643	2,030
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric and demand savings (gross and net) PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual kWh gross	Portfolio Level (PL)- All	2016	3,939,665	29,930,363	NA	NA	32,418,313	35,120,467	5,684,062	40,915,050	30,214,124
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric, and demand savings (gross and net) • • PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual kWh net	Portfolio Level (PL)—All	2016	2,954,749	20,357,475	NA	NA	23,730,356	25,739,470	4,263,047	27,185,974	20,260,593
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric and demand savines (ernss and net) •• PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual Therm gross	Portfolio Level (PL)- All	2016	174,569	243,542	NA	NA	174,569	174,569	174,569	174,569	174,569
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric and demand savines (ernss and net) •• PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual Therm net	Portfolio Level (PL)- All	2016	123,890	178,367	NA	NA	123,890	123,890	123,890	123,890	123,890
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric, and demand savings (gross and net). PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante kW gross	Portfolio Level (PL)—All	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric. and demand savings (gross and net) • • PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante kW net	Portfolio Level (PL)- All	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric and demand savings (gross and net) PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante kWh gross	Portfolio Level (PL)- All	2016	23,598,508	294,563,599	NA	NA	315,557,235	335,428,671	34,104,373	245,487,796	181,284,741
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric and demand savings (gross and net) PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante kWh net	Portfolio Level (PL)- All	2016	17,698,881	196,987,486	NA	NA	232,594,264	247,375,631	25,578,280	163,115,847	121,563,556
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric, and demand savings (gross and net) • • PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante Therm gross	Portfolio Level (PL)- All	2016	859,036	1,356,041	NA	NA	814,572	1,001,374	964,014	1,423,118	1,341,912
SoCalREN	A02	PL1	S1	S1: Energy Savings	Metric	electric and demand savings (gross and net) • • PLI-SI- First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante Therm net	Portfolio Level (PL)- All	2016	644,277	979,854	NA	NA	608,519	748,547	723,010	962,339	934,434
SoCalREN	A02	PL2	S3	S3: DAC Savings	Metric	electric and demand savines (gross and net) •• PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged	First year annual kW gross	Portfolio Level (PL)—All Sectors	2016	445	449	NA	NA	346	247	252	262	276
SoCalREN	A02	PL2	S3	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 as	First year annual kW net	Portfolio Level (PL) – All Sectors	2016	334	337	NA	NA	259	185	189	197	207
SoCalREN	A02	PL2	S3	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (ore-evaluation) gas. electric, and demand savings (gross and net) in disadvantaged	First year annual kWh gross	Portfolio Level (PL)- All Sectors	2016	1,335,081	2,538,174	NA	NA	1,255,001	1,840,706	1,877,404	1,953,560	2,052,480
SoCalREN	A02	PL2	S3	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	First year annual kWh net	Portfolio Level (PL)- All Sectors	2016	1,001,311	1,903,630	NA	NA	941,250	1,380,529	1,408,053	1,465,170	1,539,360
SoCalREN	A02	PL2	S3	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas electric, and demand savines (gross and net) in disadvantaged communities **	First year annual Therm gross	Portfolio Level (PL)- All Sectors	2016	305,831	94,708	NA	NA	265,746	312,183	318,407	331,323	348,099
SoCalREN	A02	PL2	S3	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	First year annual Therm net	Portfolio Level (PL)— All Sectors	2016	229,373	71,031	NA	NA	199,310	234,137	238,805	248,492	261,074
SoCalREN SoCalREN	A02	PL2 PL2	S3	S3: DAC Savings 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 as PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante kW gross Lifecycle ex-ante kW net	Portfolio Level (PL)— All Sectors Portfolio Level (PL)— All	2016		NA	NA	NA	NA NA	NA	NA NA	NA	NA
Socalren	AD2	PL2	53	S3: DAC Savings	Metric	electric, and demand savings (gross and net) in disadvantaged communities • PL2-53 - First year annual and lifecycle ex-ante (pre-evaluation) gas.	Lifecycle ex-ante kW net	Sectors Portfolio Level (PL)—All	2016	7 994 064	13.511.885	NA NA	NA NA	7.519.061	11.044.236	11 264 425	11.721.359	12.314.877
Socalren	AD2	PL2	53	S3: DAC Savings	Metric	electric, and demand savings (gross and net) in disadvantaged communities • PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas.	Lifecycle ex-ante kWh net	Sectors Portfolio Level (PL) – All	2016	5.995.548	10.133.914	NA.	NA NA	5.639.296	8.283.177	8.448.319	8.791.019	9.236.158
SocalREN	AD2	PL2	S3	S3: DAC Savings	Metric	electric, and demand savings (gross and net) in disadvantaged communities •• PI2-53- First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante Therm gross	Sectors Portfolio Level (PL) – All	2016	305,831	517,064	NA NA	NA NA	265,746	312,183	318,407	331,323	348,099
SoCalREN	A02	PL2	S3	S3: DAC Savings	Metric	electric, and demand savings (gross and net) in disadvantaged communities == PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas.	Lifecycle ex-ante Therm net	Sectors Portfolio Level (PL)- All	2016	229,373	387,798	NA .	NA	199,310	234,137	238,805	248,492	261,074
SoCalREN	A02	PL3	S4	S4: Hard to reach markets	Metric	electric, and demand savings (gross and net) in disadvantaged communities ** PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual kW gross	Sectors Portfolio Level (PL)- All	2016	445	449	NA	NA	346	247	252	262	276
SoCalREN	A02	PL3	S4	S4: Hard to reach markets	Metric	electric, and demand savings (gross and net) in hard-to-reach markets •• PL3-S4 - First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual kW net	Sectors Portfolio Level (PL)—All	2016	334	337	NA	NA	259	185	189	197	207
SoCalREN	A02	PL3	S4	S4: Hard to reach markets	Metric	electric, and demand savings (gross and net) in hard-to-reach markets •• PL3-54 - 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	Sectors Portfolio Level (PL)—All Sectors	2016	1,335,081	2,538,174	NA	NA	1,255,001	1,840,706	1,877,404	1,953,560	2,052,480
SoCalREN	A02	PL3	S4	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	Portfolio Level (PL)—All Sectors	2016	1,001,311	1,903,630	NA	NA	941,250	1,380,529	1,408,053	1,465,170	1,539,360
SoCalREN	A02	PL3	S4	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 Therm gross	Portfolio Level (PL)—All Sectors	2016	94,708	94,708	NA	NA	NA	NA	-	-	-
SoCalREN	A02	PL3	S4	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 Therm net	Portfolio Level (PL)—All Sectors	2016	71,031	71,031	NA	NA	NA	NA	-	-	-
SoCalREN	A02	PL3	S4	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 gross	Portfolio Level (PL)— All Sectors	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A02	PL3	S4	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	Portfolio Level (PL)—All Sectors	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A02	PL3	S4	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	Portfolio Level (PL)—All Sectors	2016	7,994,064	13,511,885	NA	NA	7,519,061	11,044,236	11,264,425	11,721,359	12,314,877
SoCalREN	A02	PL3	S4	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	Portfolio Level (PL)—All Sectors	2016	5,995,548	10,133,914	NA	NA	5,639,296	8,283,177	8,448,319	8,791,019	9,236,158
SoCalREN	A02	PL3	S4	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	Portfolio Level (PL)—All Sectors	2016	305,831	517,064	NA	NA	265,746	312,183	318,407	331,323	348,099
SoCalREN	A02	PL3	S4	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	Portfolio Level (PL)—All Sectors	2016	229,373	387,798	NA	NA	199,310	234,137	238,805	248,492	261,074
SoCalREN	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 (\$/kW)	Portfolio Level (PL)- All Sectors	2016	NÁ	NA	NA	NA	NA	NÁ.	NA	NA	NA NA

SoCalREN	A02	PL4	LC	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	PAC Levelized Cost (\$/kWh)	Portfolio Level (PL)- All	2016	0.25	0.23	8,987,134	38,816,467	0.02	0.02	0.17	0.17	0.16
SoCalREN	A02	PL4	LC	Cost per unit saved	Metric	hoth TRC and P&C) •• PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	PAC Levelized Cost (\$/therm)	Sectors Portfolio Level (PL)— All	2016	6.88	7.72	8,987,134	1,163,894	7.26	5.90	6.13	5.89	5.61
SoCalREN	A02	PL4	LC	Cost per unit saved	Metric	both TRC and PAC) •• PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	TRC Levelized Cost (\$/kW)	Sectors Portfolio Level (PL)- All	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A02	PL4	LC	Cost per unit saved	Metric	both TRC and PAC) •• PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	TRC Levelized Cost (\$/kWh)	Portfolio Level (PL)— All	2016	0.37	0.26	10,037,105	38,816,467	0.03	0.03	0.26	0.25	0.23
SoCalREN	A02	PL4	LC	Cost per unit saved	Metric	hoth TRC and P&C) •• PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	TRC Levelized Cost (\$/therm)	Portfolio Level (PL)- All	2016	10.12	8.62	10,037,105	1,163,894	10.68	8.69	9.02	8.67	8.25
SoCalREN	A02	RSF1	S1	S1: Energy Savings	Metric	hoth TRC and PACl++ RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family	First year annual kW gross	Residential (RSF)	2016	692	359	NA	NA	461	-	-	-	-
SoCalREN	A02	RSF1	S1	S1: Energy Savings	Metric	Customers. • • RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family	First year annual kW net	Residential (RSF)	2016	519	269	NA	NA	346	-	-	-	-
SoCalREN	A02	RSF1	S1	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	First year annual kWh gross	Residential (RSF)	2016	394,820	185,964	NA	NA	263,035	-		-	-
SoCalREN	A02	RSF1	S1	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	First year annual kWh net	Residential (RSF)	2016	296,115	139,473	NA	NA	197,276		-		-
SoCalREN	A02	RSF1	S1	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	First year annual Therm gross	Residential (RSF)	2016	17,080	28,917	NA	NA	17,080	17,080	17,080	17,080	17,080
SoCalREN	A02	RSF1	S1	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	First year annual Therm net	Residential (RSF)	2016	14,680	21,688	NA	NA	14,680	14,680	14,680	14,680	14,680
SoCalREN	A02	RSF1	S1	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	Lifecycle ex-ante kW gross	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A02	RSF1	S1	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	Lifecycle ex-ante kW net	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A02	RSF1	S1	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	Lifecycle ex-ante kWh gross	Residential (RSF)	2016	2,329,439	1,117,891	NA	NA	1,551,905	0	0	0	0
SoCalREN	A02	RSF1	S1	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	Lifecycle ex-ante kWh net	Residential (RSF)	2016	1,747,079	838,418	NA	NA	1,163,929	-			-
SoCalREN	A02	RSF1	S1	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	Lifecycle ex-ante Therm gross	Residential (RSF)	2016	257,832	175,561	NA	NA	171,771	-	-		-
SoCalREN	A02	RSF1	S1	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	Lifecycle ex-ante Therm net	Residential (RSF)	2016	193,374	131,671	NA	NA	128,829	-	-		-
SoCalREN	A03	RSF2	G	GHG	Metric	RSF2-G••Greenhouse gasses (MT CO2eq) Net kWh savings, reported on	MT CO2eq	Residential (RSF)	2016	6.5	6.5	NA	NA	7.5	8.5	9.5	10.5	11.5
SoCalREN	A03	RSF3	D1-D	D1: Depth of interventions ••Per	Metric	An annual basis** RSF3-D1D - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET kW	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSF3	D1-D	D1: Depth of interventions ••Per	Metric	RSF3-D1D - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET kWh	Residential (RSF)	2016	2,680	1,638	838,418	512	2,676				
SoCalREN	A03	RSF3	D1-D	D1: Depth of interventions •• Per	Metric	RSF3-D1D - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET Therms	Residential (RSF)	2016	297	257	131,671	512	296				
SoCalREN	A03	RSF3	D1-M	D1: Depth of interventions ••Per	Metric	RSF3-D1M - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET kW	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSF3	D1-M	D1: Depth of interventions •• Per	Metric	RSF3-D1M - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET kWh	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSF3	D1-M	D1: Depth of interventions ••Per	Metric	RSF3-D1M - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET Therms	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSF3	D1-0	D1: Depth of interventions •• Per opt out	Metric	RSS3-D1O - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET kW	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSF3	D1-0	D1: Depth of interventions ••Per opt out	Metric	RSF3-D1O - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET kWh	Residential (RSF)	2016	606	1,638	838,418	512	605	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/01
SoCalREN	A03	RSF3	D1-0	D1: Depth of interventions ••Per opt out	Metric	RSS3-D1O - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET Therms	Residential (RSF)	2016	198	257	131,671	512	199	200	201	202	203
SoCalREN	A03	RSF3	D1-U	D1: Depth of interventions ••Per	Metric	RSF3-D1U- Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET kW	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSF3	D1-U	D1: Depth of interventions ••Per	Metric	RSF3-D1U- Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as	Lifecycle NET kWh	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSF3	D1-U	D1: Depth of interventions ••Per	Metric	RSF3-D1U- Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as for interest of the control of the con	Lifecycle NET Therms	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSF4	P1	P1: Penetration of energy efficiency programs in the eligible market ••Percent of	Metric	RSF-P1**Percent of participation relative to eligible population**	Percent	Residential (RSF)	2016	0.018%	0.00014	512	3,680,136	0.012%	0.000%	0.000%	0.000%	0.000%
SoCalREN	A03	RSF4	Р3	Particination P3: Penetration of energy efficiency programs in the	Metric	RSF-P3 - Percent of participation in disadvantaged communities ••	Percent	Residential (RSF)	2016	0.034%	0.013%	205	1,601,949	0.011%	0.000%	0.000%	0.000%	0.000%
SoCalREN	A03	RSF4	P4	P4: Penetration of energy efficiency programs in the	Metric	RSF-P4 - Percent of participation by customers defined as "hard-to-reach" ••	Percent	Residential (RSF)	2016	0.035%	0.013%	205	1,552,486	0.012%	0.000%	0.000%	0.000%	0.000%
SoCalREN	A03	RSFS	LC	HTR market Cost per unit saved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW	PAC Levelized Cost (\$/kW)	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSFS	LC	Cost per unit saved	Metric	(use hoth TRC and PAC) ** RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW	PAC Levelized Cost (\$/kWh)	Residential (RSF)	2016	1.02	2.02	2,262,419	1,117,891	1.53				
SoCalREN	A03	RSF5	LC	Cost per unit saved	Metric	(use hoth TRC and PAC) ** RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW	PAC Levelized Cost (\$/therm)	Residential (RSF)	2016	9.22	12.89	2,262,419	175,561	13.84		-		
SoCalREN	A03	RSF5	LC	Cost per unit saved	Metric	(use both TRC and PAC) •• RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW	TRC Levelized Cost (\$/kW)	Residential (RSF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RSFS	LC	Cost per unit saved	Metric	(use both TRC and PAC) •• RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW	TRC Levelized Cost (\$/kWh)	Residential (RSF)	2016	1.76	3.35	3,750,297	1,117,891	2.65		-		
SoCalREN	A03	RSF5	LC	Cost per unit saved	Metric	(use both TRC and PAC) •• RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW	TRC Levelized Cost (\$/therm)	Residential (RSF)	2016	15.92	21	3,750,297	175,561	23.90		-		
SoCalREN	A03	RSF6i	El1	Energy intensity per SF	Indicator	(use both TRC and PACI •• RSF-EII (Indicator) - Average energy use intensity of single family homes	Btu	Residential (RSF)	N/A - Indi	N/A - Indicator	NA	NA	NA	N/A - Indicator				
SoCalREN	A04	RMF7i	EI2	Energy Intensity per MF	Indicator	[average usage per household – not adjusted) •• RMF-E12[Indicator] - and Average energy use intensity of multifamily	Btu	Residential Sector – Multi-	N/A - Indi	N/A - Indicator	NA	NA	NA	N/A - Indicator				
				lunit		units_including in-unit accounts)		family (RMF)										

SoCalREN	A04	RMF7i	EI3	Energy Intensity per MF	Indicator	RMF-E13[Indicator] Average energy use intensity of multifamily	Btu	Residential Sector – Multi-	N/A - Indi	N/A - Indicator	NA	NA	NA	N/A - Indicator				
SoCalREN	A04	RMFS	R1	unit square foot B1: MF Benchmarking	Metric	huildings (average usage per square foot – not adjusted •• RMF-B1 - Percent of benchmarked multi-family properties relative to	Percent	family (RMF) Residential Sector – Multi-	2016	0.0019%	0.003%	36	1.081.850	0.0019%	0.0028%	0.0030%	0.0030%	0.0032%
				Penetration		the eligible population ****		family (RMF)					, , , , , , ,					
SoCalREN	AD4	RMFS	В6	B6: Benchmarking of HTR Properties	Metric	B6(RMF) - Percent of benchmarking by properties defined as "hard-to-reach" ••••	Percent	Residential Sector – Multi- family (RMF)	2016	0.71%	0.651%	13	1,996	0.38%	0.56%	0.59%	0.60%	0.63%
SoCalREN	A04	RMF4	P1-P	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	Residential Sector – Multi- family (RMF)	2016	0.002%	0.004%	40	1,081,850	0.002%	0.003%	0.003%	0.003%	0.003%
SoCalREN	A04	RMF4	P1-U	P1: Penetration of energy efficiency programs in the eligible market ••Percent of	Metric	RMF-P1U ••Percent of participation relative to eligible population (by unit, and property) ••	Percent	Residential Sector – Multi- family (RMF)	2016	0.421%	0.766%	8,288	1,081,850	0.421%	0.613%	0.651%	0.664%	0.689%
SoCalREN	A04	RMF4	P2	P2: Penetration of energy efficiency programs in terms of square feet of	Metric	RMF-P2 - Percent of square feet of eligible population participating (by property) • •	Percent	Residential Sector – Multi- family (RMF)	2016	0.002565176	0.466%	7,019,936	1,505,146,221	0.002565176	0.003731165	0.003964363	0.004042484	0.004197561
SoCalREN	A04	RMF4		elicible population P3: Penetration of energy efficiency programs in the elicible market - DAC	Metric	RMF-P3 - Percent of participation in disadvantaged communities ••	Percent	Residential Sector – Multi- family (RMF)	2016	0.002%	0.002%	15	606,578	0.001%	0.002%	0.002%	0.002%	0.002%
SoCalREN	AD4	RMF4	P4: HTR	P4: Penetration of energy efficiency programs in the HTR market	Metric	RMF-P4+• Percent of participation by customers defined as "hard-to-reach" ••	Percent	Residential Sector – Multi- family (RMF)	2016	0.003%	0.003%	15	559,519	0.001%	0.002%	0.002%	0.002%	0.002%
SoCalREN	A04	RMF3	D3a	D3: Depth of interventions per building	Metric	RMF-D3 - Energy savings (kWh, kw, therms) per project (building)••••	Lifecycle NET kW	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A04	RMF3	D3a	D3: Depth of interventions ner building	Metric	RMF-D3 - Energy savings (kWh, kw, therms) per project (building) ••••	Lifecycle NET kWh	Residential Sector – Multi- family (RMF)	2016	4,820,319	4,699,102	28,273,932	6	4,772,595	5,272,141	5,060,943	5,164,467	5,225,513
SoCalREN	A04	RMF3	D3a	D3: Depth of interventions	Metric	RMF-D3 - Energy savings (kWh, kw, therms) per project (building)****	Lifecycle NET Therms	Residential Sector – Multi- family (RMF)	2016	136,254	123,195	741,249	6	134,905	149,025	143,055	145,982	147,707
SoCalREN	A04	RMF3	D4	D4: Depth of interventions	Metric	RMF-D4 - Average savings per participant Savings per project	Lifecycle NET kW	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A04	RMF3	D4	D4: Depth of interventions	Metric	RMF-D4 - Average savings per participant Savings per project	Lifecycle NET kWh	Residential Sector – Multi-	2016	725,082	706,848	28,273,932	40	709,440	783,697	752,302	767,691	776,765
SoCalREN	A04	RMF3	D4	ner property D4: Depth of interventions	Metric	(property) • • RMF-D4 - Average savings per participant Savings per project	Lifecycle NET Therms	family (RMF) Residential Sector – Multi-	2016	20,496	18,531	741,249	40	20,053	22,152	21,265	21,700	21,956
SoCalREN	A04	RMF3	DS	ner property D5: Depth of interventions ••Per square	Metric	Innoertyle• RMF-DS•• Energy savings (kWh, kw, therms) per square foot••	Lifecycle NET kW	family (RMF) Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A04	RMF3	D5	foot D5: Depth of interventions •• Per square	Metric	RMF-D5 •• Energy savings (kWh, kw, therms) per square foot ••	Lifecycle NET kWh	Residential Sector – Multi- family (RMF)	2016	4.13	4.028	28,273,932	7,019,936	4.04	4.47	4.29	4.37	4.43
SoCalREN	A04	RMF3	D5	D5: Depth of interventions •• Per square	Metric	RMF-D5•• Energy savings (kWh, kw, therms) per square foot••	Lifecycle NET Therms	Residential Sector – Multi- family (RMF)	2016	0.117	0.106	741,249	7,019,936	0.114	0.126	0.126	0.124	0.125
SoCalREN	AD3	RMF1	S1-IU	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	First year annual kW gross	Residential Sector – Multi- family (RMF)	2016	429	857	NA	NA	420	675	689	716	753
SoCalREN	A03	RMF1	S1-IU	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	First year annual kW net	Residential Sector – Multi- family (RMF)	2016	322	643	NA	NA	315	506	516	537	565
SoCalREN	AD3	RMF1	S1-IU	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	First year annual kWh gross	Residential Sector – Multi- family (RMF)	2016	3,199,006	6,415,036	NA	NA	3,129,995	5,029,251	5,129,520	5,337,595	5,607,868
SoCalREN	A03	RMF1	S1-IU	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	First year annual kWh net	Residential Sector – Multi- family (RMF)	2016	2,399,255	4,811,277	NA	NA	2,347,496	3,771,938	3,847,140	4,003,196	4,205,901
SoCalREN	A03	RMF1	S1-IU	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	First year annual Therm gross	Residential Sector – Multi- family (RMF)	2016	146,538	172,397	NA	NA	146,538	146,538	146,538	146,538	146,538
SoCalREN	A03	RMF1	S1-IU	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	First year annual Therm net	Residential Sector – Multi- family (RMF)	2016	109,903	129,298	NA	NA	109,903	109,903	109,903	109,903	109,903
SoCalREN	A03	RMF1	S1-IU	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 gross	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	S1-IU	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	Residential Sector – Multi- family (RMF)	2016		NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	S1-IU	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 fin-unit common area, and master metered accounts) **	Lifecycle ex-ante kWh gross	Residential Sector – Multi- family (RMF)	2016	19,194,038	34,020,667	NA	NA	18,779,969	30,175,507	30,777,117	32,025,572	33,647,206
SoCalREN	A03	RMF1	S1-IU	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	Lifecycle ex-ante kWh net	Residential Sector – Multi- family (RMF)	2016	14,395,528	25,515,500	NA	NA	14,084,977	22,631,630	23,082,838	24,019,179	25,235,404
SoCalREN	A03	RMF1	S1-IU	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 fin-unit common area, and master metered accounts) **	Lifecycle ex-ante Therm gross	Residential Sector – Multi- family (RMF)	2016	542,550	891,910	NA	NA	530,845	852,958	869,963	905,253	951,091
SoCalREN	A03	RMF1	S1-IU	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 fin-unit common area, and master metered accounts) **	Lifecycle ex-ante Therm net	Residential Sector – Multi- family (RMF)	2016	406,912	668,932	NA	NA	398,134	639,719	652,473	678,940	713,318
SoCalREN	A03	RMF1		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 matered accounts).	First year annual kW gross	Residential Sector – Multi- family (RMF)	2016	46	93		NA	45	73	74	77	81
SoCalREN	A03	RMF1		S1: Energy Savings	Metric	RMF-51-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers fin-unit common area, and master metered accounts).**	First year annual kW net	Residential Sector – Multi- family (RMF)	2016	35	69	NA	NA	34	55	56	58	61
SoCalREN	A03	RMF1		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 financial common area, and master metered accounts).	First year annual kWh gross	Residential Sector – Multi- family (RMF)	2016	345,839	693,517	NA	NA	338,378	543,703	554,543	577,037	606,256
SoCalREN	AD3	RMF1		S1: Energy Savings	Metric	RMF-51-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	Residential Sector – Multi- family (RMF)	2016	259,379	520,138	NA	NA	253,783	407,777	415,907	432,778	454,692
SoCalREN	AD3	RMF1		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 financial common area, and master metered accounts).	First year annual Therm gross	Residential Sector – Multi- family (RMF)	2016	17,689	18,638	NA	NA	17,689	17,689	17,689	17,689	17,689
SoCalREN	AD3	RMF1	S1-MM	S1: Energy Savings	Metric	RMF-51-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	Residential Sector – Multi- family (RMF)	2016	11,765	13,978	NA	NA	11,765	11,765	11,765	11,765	11,765
SoCalREN	A03	RMF2	G	GHG	Metric	RMF-G•• Greenhouse gasses (MT CO2 eq) Net kWh savings, reported on an annual basis••	MT CO2eq	Residential Sector – Multi- family (RMF)	2016	0	154	NA	NA	231	378	367	366.3333333	436
SoCalREN	A03	RMF1	S1-MM	S1: Energy Savings	Metric	on an annuar pasis.** RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers financial common area and matter material accounts in	Lifecycle ex-ante kW gross	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	S1-MM	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 fin-unit common area and master metered accounts).	Lifecycle ex-ante kW net	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	S1-MM	S1: Energy Savings	Metric	fin-unit common area and master metered accounts) ** RMF-SI-First year annual and lifecycle ex-ante [pre-evaluation] gas, electric, and demand savings (gross and net) for multifamily customers fin-unit common area and master metered accounts) **	Lifecycle ex-ante kWh gross	Residential Sector – Multi- family (RMF)	2016	2,075,031	3,677,910	NA	NA	2,030,267	3,262,217	3,327,256	3,462,224	3,637,536

SoCalREN	A03	RMF1	S1-MM	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante kWh net	Residential Sector – Multi-	2016	1,556,273	2,758,432	NA	NA	1,522,700	2,446,663	2,495,442	2,596,668	2,728,152
SoCalREN	A03				Metric	electric, and demand savings (gross and net) for multifamily customers		family (RMF) Residential Sector – Multi-										
Socalken	AU3	RMF1	51-MM	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	Lifecycle ex-ante Therm gross	family (RMF)	2016	58,654	96,423	NA	NA	57,389	92,212	94,050	97,865	102,821
SoCalREN	A03	RMF1	S1-MM	S1: Energy Savings	Metric	fin-unit common area and master metered accounts) •• RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers	Lifecycle ex-ante Therm net	Residential Sector – Multi- family (RMF)	2016	43,991	72,317	NA	NA	43,042	69,159	70,538	73,399	77,115
SoCalREN	A03	RMF1	SI-CA	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual kW gross	Residential Sector – Multi-	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
						electric, and demand savings (gross and net) for multifamily customers (in-unit common area, and master metered accounts).		family (RMF)										
SoCalREN	A03	RMF1	SI-CA	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	First year annual kW net	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	SI-CA	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual kWh gross	Residential Sector – Multi-	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	SI-CA	S1: Energy Savings	Metric	electric, and demand savings (gross and net) for multifamily customers (in-unit common area and master metered accounts) ** RMF-51-First year annual and lifet voile ex-ante (pre-evaluation) gas.	First year annual kWh net	family (RMF) Residential Sector – Multi-	2016	NA.	NA	NA.	NA	NA	NA	NA	NA.	NA
						electric, and demand savings (gross and net) for multifamily customers	,	family (RMF)										
SoCalREN	A03	RMF1	SI-CA	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	First year annual Therm gross	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	SI-CA	S1: Energy Savings	Metric	fin-unit common area and master metered accounts)** RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas,	First year annual Therm net	Residential Sector – Multi-	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	C1 C4	CA Committee Committee	Metric	electric, and demand savings (gross and net) for multifamily customers (in-unit common area and master metered accounts) ** RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas.		family (RMF) Residential Sector – Multi-	2016									
SOCAIREN	AU 3	KMFI	SI-CA	S1: Energy Savings	Metric	electric, and demand savings (gross and net) for multifamily customers	Lifecycle ex-ante kW gross	family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	SI-CA	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	Lifecycle ex-ante kW net	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A03	RMF1	SI-CA	S1: Energy Savings	Metric	(in-unit common area and master metered accounts) •• RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante kWh gross	Residential Sector – Multi-	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
						electric, and demand savings (gross and net) for multifamily customers		family (RMF)										
SoCalREN	A03	RMF1	SI-CA	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	Lifecycle ex-ante kWh net	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA .	NA	NA	NA
SoCalREN	A04	RMF6	LC	Cost per unit saved	Metric	Inn-unit common area and master metered accounts (**) RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW Issa horth TPC and PAC) **	PAC Levelized Cost (\$/kW)	Residential Sector – Multi- family (RME)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A04	RMF6	LC	Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW	PAC Levelized Cost (\$/kWh)	Residential Sector – Multi- family (RMF)	2016	0.16	0.18	6,724,715	37,698,576	0.16	0.10	0.10	0.09	0.09
	AD4	RMF6	LC	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 (\$/therm)	Residential Sector – Multi- family (RMF)	2016	5.51	6.80	6,724,715	988,333	5.63	3.50	3.43	3.30	3.14
SoCalREN	A04	RMF6	LC	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 (\$/kW)	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN SoCalREN	A04 A04	RMF6	LC	Cost per unit saved Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use hoth TRC and PACl++ RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW	TRC Levelized Cost (\$/kWh) TRC Levelized Cost (\$/therm)	Residential Sector – Multi- family (RMF) Residential Sector – Multi-	2016	0.21	6.36	6,286,808	37,698,576 988.333	0.21	0.13	0.13	0.12	0.12
SoCalREN	AD3	RMF1	SI-CA	S1: Energy Savings	Metric	RMF-51-First year annual and lifecycle ex-ante (pre-evaluation) gas,	Lifecycle ex-ante Therm gross	family (RMF) Residential Sector – Multi-	2016	NA 7.27	NA	0,200,000 NA	NA	NA 7.43	4.02 NA	4.33 NA	4.53 NA	NA 4.13
						electric, and demand savings (gross and net) for multifamily customers		family (RMF)										
SoCalREN	A03	RMF1	SI-CA	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	Lifecycle ex-ante Therm net	Residential Sector – Multi- family (RMF)	2016	NA	NA	NA	NA	NA	NA	NA	NA	NA
SoCalREN	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector	First year annual kW gross	Public Sector (P)	2016	857	424			750	500	500	3150	2160
	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector	First year annual kW net	Public Sector (P)	2016	653	389			487.5	325	325	2048	1404
SoCalREN	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector	First year annual kWh gross	Public Sector (P)	2016	10,000,538	22,635,846			15,000,000	10,000,000	10,000,000	35,000,000	24,000,000
SoCalREN	AD6	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector	First year annual kWh net	Public Sector (P)	2016	7,823,378	14,886,587			9,750,000	6,500,000	6,500,000	22,750,000	15,600,000
SoCalREN	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	First year annual Therm gross	Public Sector (P)	2016	14,964	23,590			27,000	18,000	18,000	70,000	48,000
SoCalREN	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector	First year annual Therm net	Public Sector (P)	2016	8,946	13,403			13,500	9,000	9,000	35,000	24,000
SoCalREN	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector	Lifecycle ex-ante kW gross	Public Sector (P)	2016	NA	N/A			NA	NA	NA	NA	NA
SoCalREN	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector	Lifecycle ex-ante kW net	Public Sector (P)	2016	NA	N/A			NA	NA	NA	NA	NA
SoCalREN	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector	Lifecycle ex-ante kWh gross	Public Sector (P)	2016	112,273,601	255,747,132			90,000,000	60,000,000	60,000,000	210,000,000	144,000,000
SoCalREN	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	Lifecycle ex-ante kWh net	Public Sector (P)	2016	88,855,877	167,875,136			58,500,000	39,000,000	39,000,000	136,500,000	93,600,000
SoCalREN	AD6	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector	Lifecycle ex-ante Therm gross	Public Sector (P)	2016	139,010	192,147			162,000	108,000	108,000	420,000	288,000
	A06	P1	S1	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs.	Lifecycle ex-ante Therm net	Public Sector (P)	2016	85,297	106,933			81,000	54,000	54,000	210,000	144,000
SoCalREN	A06	P2	G	GHG	Metric	P-G+-Greenhouse gasses (MT CO2eq) based on net lifecycle kWh and Therms savings, reported on an annual basis, incorporating average final backpoology mixes	MT CO2eq	Public Sector (P)	2016	499	2,560			459	306	306	1,190	816
SoCalREN	A06	P3i	D3b	D3: Depth of interventions ner building	Indicator	P-D3[Indicator] Average percent energy savings (kWh, kw, therms) per project huilding or facility	Percent annual NET kW	Public Sector (P)	N/A - Indi	N/A - Indicator	N/A - Indicator	N/A - Indicator		N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
SoCalREN SoCalREN	A06	P3i	D3b	D3: Depth of interventions per building	Indicator	P-D3 [Indicator] Average percent energy savings (kWh, kw, therms) per project building or facility.	Percent annual NET kWh	Public Sector (P)	N/A - Indi N/A - Indi	N/A - Indicator	N/A Indicator			N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
Socalren	A06	P3i	D3b D5	D3: Depth of interventions per building D5: Depth of	Indicator	P-D3 [Indicator] Average percent energy savings (kWh, kw, therms) per project building or facility** P-D5 [Indicator] Average annual energy savings (kWh, kw, therms) per	Percent annual NET Therms Annual NET kW	Public Sector (P) Public Sector (P)	N/A - Indi	N/A - Indicator N/A - Indicator	N/A - Indicator N/A - Indicator			N/A - Indicator N/A - Indicator	N/A - Indicator			
				interventions •• Per square		project building floor plan area • •												,
SoCalREN	A06	P3i	D5	D5: Depth of interventions •• Per square foot	Indicator	P-D5 [Indicator] Average annual energy savings (kWh, kw, therms) per project building floor plan area • •	Annual NET kWh	Public Sector (P)	N/A - Indi	N/A - Indicator	N/A - Indicator			N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
SoCalREN	AD6	P3i	D5	D5: Depth of interventions •• Per square foot	Indicator	P-D5[Indicator] Average annual energy savings (kWh, kw, therms) per project building floor plan area • •	Annual NET Therms	Public Sector (P)	N/A - Indi	N/A - Indicator	N/A - Indicator			N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator

SoCalREN	AU6	P31	W1	Water	Indicator	P-W1[Indicator] Average annual energy savings (kWh, kW therms) per annual flow through project water/was tewater facilities **	Annual NET kW	Public Sector (P)		N/A - Indicator	N/A - Indicator			N/A - Indicator		N/A - Indicator	N/A - Indicator	N/A - Indicator
SoCalREN	A06	P3i	W1	Water	Indicator	P-W1[Indicator] Average annual energy savings (kWh, kW therms) per annual flow through project water/was tewater facilities ••	Annual NET kWh	Public Sector (P)	N/A - Indi	N/A - Indicator	N/A - Indicator			N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
SoCalREN	A06	P3i	W1	Water	Indicator	P-W1[Indicator] Average annual energy savings (kWh, kW therms) per	Annual NET Therms	Public Sector (P)	N/A - Indi	N/A - Indicator	N/A - Indicator			N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
SoCalREN	A07	P4	P1	P1: Penetration of energy efficiency programs in the eligible market **Percent of Participation	Metric	annual flow through project water/wastewater facilities • • P-P1 - Percent of Public Sector accounts participating in programs • •	Percent	Public Sector (P)	2016	0.01	0.01	665	6350	665	6350	0	0	0
SoCalREN	A07	P4i	P2	P2: Penetration of energy efficiency programs in terms of square feet of	Indicator	P-P2[Indicator] Percent of estimated floorplan area (i.e., ft2) of all Public Sector buildings participating in building projects—estimate within +/-15% of sector-wide building area, +/-5% of project building	Percent	Public Sector (P)	N/A - Indi	N/A - Indicator	N/A - Indicator			N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
SoCalREN	A07	P4i	W2	Water	Indicator	P-W2 [indicator] Percent of Public Sector water/wastewater flow (i.e., annual average Million Gallons per Day) enrolled in non-building water/wastewater programs – estimate within +/-20% of flow through eligible facilities (treatment facilities pumping stations),	Percent	Public Sector (P)	N/A - Indi	N/A - Indicator	N/A - Indicator			N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
SoCalREN	A07	P5	LC	Cost per unit saved	Metric	P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use hoth TRC and PAC).	PAC Levelized Cost (\$/kW)	Public Sector (P)	2016	N/A - Non-resource	N/A - Non-resor	ırce		N/A - Non-reso	N/A - Non-resource	N/A - Non-resou	N/A - Non-resourc	N/A - Non-resou
SoCalREN	A07	P5	LC	Cost per unit saved	Metric	P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	PAC Levelized Cost (\$/kWh)	Public Sector (P)	2016	N/A - Non-resource	N/A - Non-resor	urce		N/A - Non-reso	N/A - Non-resource	N/A - Non-resou	N/A - Non-resourc	N/A - Non-resou
SoCalREN	A07	P5	LC	Cost per unit saved	Metric	both TRC and PACI++ P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	PAC Levelized Cost (\$/therm)	Public Sector (P)	2016	N/A - Non-resource	N/A - Non-resor	ırce		N/A - Non-reso	N/A - Non-resource	N/A - Non-resou	N/A - Non-resourc	N/A - Non-resou
SoCalREN	A07	P5	LC	Cost per unit saved	Metric	both TRC and PACI •• P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	TRC Levelized Cost (\$/kW)	Public Sector (P)	2016	N/A - Non-resource	N/A - Non-resor	urce		N/A - Non-reso	N/A - Non-resource	N/A - Non-resou	N/A - Non-resourc	N/A - Non-resou
SoCalREN	A07	P5	LC	Cost per unit saved	Metric	hoth TRC and PAC) •• P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	TRC Levelized Cost (\$/kWh)	Public Sector (P)	2016	N/A - Non-resource	N/A - Non-resor	ırce		N/A - Non-reso	N/A - Non-resource	N/A - Non-resou	N/A - Non-resourc	N/A - Non-resou
SoCalREN	A07	P5	LC	Cost per unit saved	Metric	hoth TRC and PACles P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use	TRC Levelized Cost (\$/therm)	Public Sector (P)	2016	N/A - Non-resource	N/A - Non-resor	ırce		N/A - Non-reso	N/A - Non-resource	N/A - Non-resou	N/A - Non-resourc	N/A - Non-resou
	A07	P6i	F2	Investment in EE	Indicator	both TRC and PAC)** P-F2 - [Indicator] Total program-backed financing distributed to Public	\$	Public Sector (P)		N/A - Indicator					N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
SoCalREN		P7	В3	Public Sector	Metric	Sector customers requiring renament (i.e. loans: ORFI++ P-B3 - Percent of Public Sector buildings with current benchmark++++	Percent	Public Sector (P)	2016		1.5	975	63650	1.6%	1.6%	1.7%	1.8%	2.0%
- Luncia		ľ	ľ	Benchmarking Penetration		and the second durings with content Deliciniar.			2010	1.3%	1.5	5/3	03030	2.0%	1.0%	2.7%	1.6%	2.0%
SoCalREN	A07	P7	EI4	Energy Intensity per public sector building	Metric	P-E14 Average energy use intensity of all Public Sector buildings ••	Btu	Public Sector (P)	2016	34	34	2188910	63650	35	36	37	38	39
SoCalREN	A07	P7i	B4	Public Sector Square Foot Benchmarking Penetration in Calandar Year	Indicator	B4-P[Indicator] Percent of floorplan area of all Public Sector buildings with current benchmark	Percent	Public Sector (P)	N/A - Indi	N/A - Indicator				N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
[PA Name]	A12	WET-1	1	Collaborations	Metric	Number of collaborations by Business Plan sector to jointly develop or share training materials or resources.	Count	Workforce Education and Training (WFT)	N/A	N/A				N/A	N/A	N/A	N/A	N/A
[PA Name]	A12	WET-2	1	Penetration	Metric	Number of participants by sector	Count	Workforce Education and Training (WET)		N/A				N/A	N/A	N/A	N/A	N/A
[PA Name]	A12	WET-2	1	Penetration	Metric	Percent of participation relative to eligible target population for	Percentage	Workforce Education and		N/A				N/A	N/A	N/A	N/A	N/A
[PA Name]	A12	WET-3	1	Diversity	Metric	Percent of total WE&T training program participants that meet the	Percentage	Workforce Education and		N/A				N/A	N/A	N/A	N/A	N/A
[PA Name]	A12	WET-3	1	Diversity	Metric	definition of disadvantaged worker Percent of applicable incentive contract spend by vendors with a demonstrated commitment to provide career pathways to disadvantaged workers	Percentage	Training (WFT) Workforce Education and Training (WET)		N/A				N/A	N/A	N/A	N/A	N/A
[PA Name]	A12	WET-3i	1	Diversity	Indicator		Count	Workforce Education and		N/A				N/A	N/A	N/A	N/A	N/A
						ineen eminived for 12 minims after receiving the training		Training (WFI)										
				_														
		1	1						1									