

# Annual 2024 Portfolio Performance Report Review

Hosted by the California Energy Efficiency Coordinating Committee (CAEECC)

Virtually on Zoom

Meeting Date: 8/5/2025 9:30am-3:00pm

*Last updated July 30, 2025*

# Agenda

9:30 **Welcome**

*Agenda and How to Participate*

9:35 **Annual Performance Overview**

*Summary of portfolio performance across PAs*

9:50 **Overview of New PAs**

*CCRREN, NREN, and SDREN present service area, 2024 spend, and preview of portfolio activities*

10:05 **Central CA  
Performance Review**

*3CREN*

10:35

**Southern CA IOUs  
Performance Review**

*SCE, SoCalGas, SDG&E*

11:20

**Southern CA RENS  
Performance Review**

*I-REN, SoCalREN*

*Lunch*

12:40

**NorCal  
Performance Review**

*PG&E, MCE, BayREN*

*Break*

1:50

**Key Themes**

*Open Discussion  
Summary of Key Themes*

2:35 - 3:00

**Wrap Up**

*Overview of PPRR and Next Steps*

## Welcome & Introductions

Annual Performance Overview

Overview of New PAs

Central CA Performance Review

Southern CA IOUs Performance Review

Southern CA RENS Performance Review

*Lunch*

NorCal Performance Review

*Break*

Key Themes

Wrap Up

# Welcome

How to Participate



# Welcome!

As folks filter in, please  
drop your **Name, Pronouns,  
and Organization /  
Representation** in the chat.

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# How to Participate

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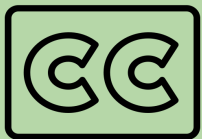


# Format for Each Presentation

- 1) **Portfolio Administrator (PA) Presentation (10min)**
- 2) **Questions & Input (5min)**
  - a) First by CAEECC Members, then the Public
- 3) **Regional Q&A**

*There is limited time for Q&A. Unanswered Questions & Input submitted via Slido will be included in the Meeting Summary, and PAs will be asked to respond to as many as possible via Slido and the Meeting Summary*

# Everyone



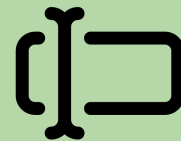
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**captioning** is  
available



Share your **video**  
if possible

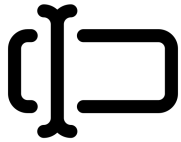


**Mute** yourself  
when you're not  
speaking.



**Rename** yourself  
with your  
Representation &  
Pronouns

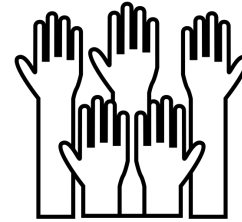
# CAEECC Members Participation:



**Rename** yourself to “C  
- [Name],  
[Organization]”



Please **raise your hand** to enter the queue.



If there are many folks with raised hands, please limit yourself to **1-2 questions**. If there's time, we'll return to your remaining questions. *If CAEECC Members have more questions than time allows, please **use the Slido Link** to uplift your remaining questions.*

*Please enter your name when using Slido.*



# Non-CAEECC Member Participation:

slido

Participate in Questions & Input via Slido

Go to [Slido.com](#) and enter code **#code here**

Questions & Input can be added **at any point** during the PA presentation. There is a 300 character limit. Use replies to add on if you need more space.



Please **tag** your Questions according to the PA Presenter (i.e. PG&E or SoCalREN), so we can address your questions accordingly.



Questions can be **upvoted** to uplift common questions. **Due to limited time, only a few questions may be addressed during the meeting.**

The Facilitator will use upvotes and facilitator discretion in selecting questions. All questions will be included in the Meeting Summary. PAs will be asked to respond in the Meeting Summary.

# Zoom Webinar & Attendee Participation

**Non-CAEECC Members are *Attendees* in this Zoom Webinar** except *Presenters*

Messaging:

- Cannot Direct Message other Attendees
- ✓ Can chat Everyone
- ✓ Can Direct Message a Facilitator (use only for tech issues)

Member Transparency

- ✓ Lead CAEECC Members renamed with “C - [Name], [Organization]”

Due to time limitations, we may not be able to answer all questions.

Unanswered questions will be noted in the Meeting Summary and will be answered offline.

## Annual Performance Overview

Overview of New PAs

Central CA Performance Review

Southern CA IOUs Performance Review

Southern CA RENS Performance Review

NorCal Performance Review

Key Themes

Wrap Up

# Annual Performance Overview

Background on PPRR

Summary of portfolio performance across PAs

Lunch

Break

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# Background

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# In October 2024, CAEECC hosted the *Semi-Annual* 2024 Portfolio Performance Report Review Goals

1

Highlight trends in PA portfolios

2

Get input from CAEECC on possible course corrections

3

Bring PA proposals for discussion (at least 3 months prior to filing)

4

Optional use of Working Groups or Task Forces to tackle challenges raised in the Annual Report

# Today, CAEECC is hosting the *Annual* 2024 Portfolio Performance Report Review Goals

1

Identify challenges & opportunities

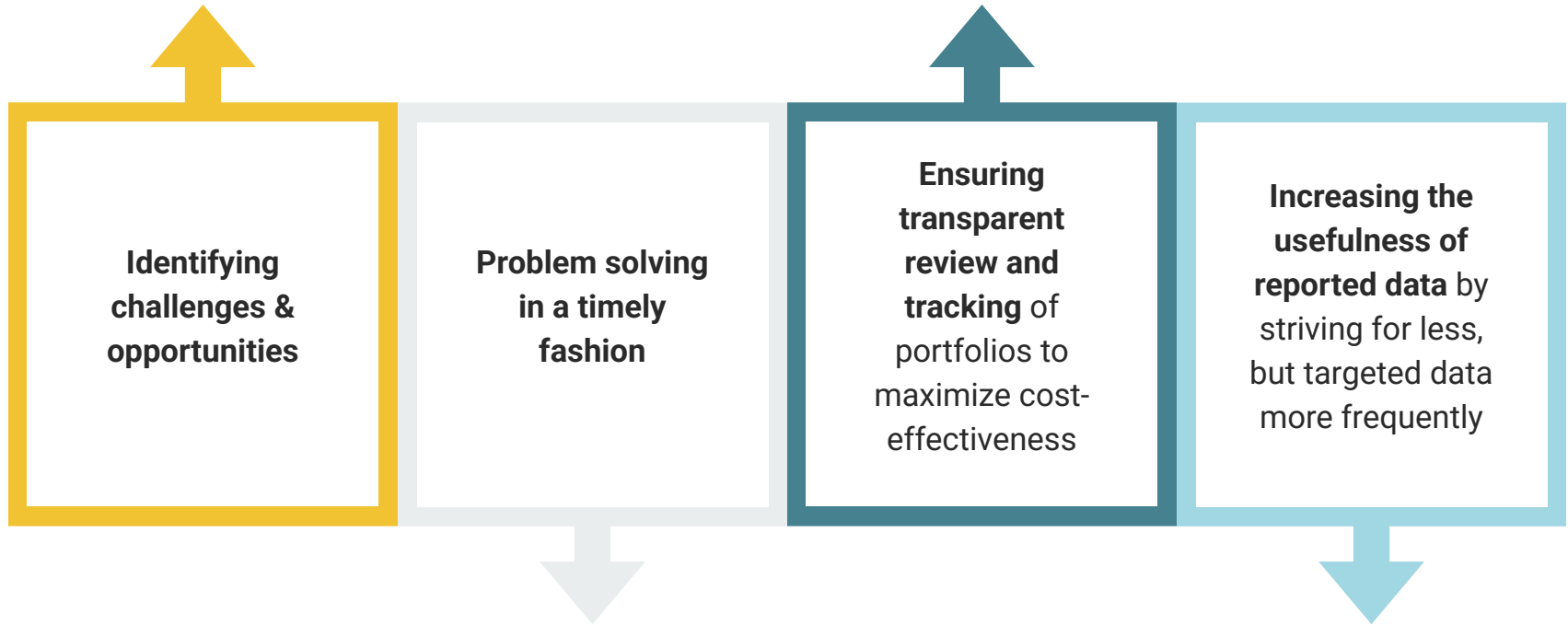
2

Identify who might problem solve (CAEECC, Portfolio Administrator (PA), or other) in a timely fashion

3

Ensure transparent review, tracking, and dialogue of portfolios to maximize cost-effectiveness

# Purpose of CAEECC Engagement in Portfolio Review Process



# Summary of Core Metrics

Key Metrics from CAEECC  
Consensus Doc (042420)  
SEC 8.3.1 (p.16)  
([Download Word Document](#))

D.21-05-031 p.14: Programs with a primary purpose of delivering cost-effective avoided cost benefits to the electricity and natural gas systems.

D.21-05-031 p.14: Programs with a primary objective of supporting the long-term success of the energy efficiency market (e.g., education, workforce, etc.).

D.21-05-031 p.14: Programs with a primary purpose of providing energy efficiency to hard-to-reach or underserved customers and disadvantaged communities.

EE Policy Manual v6 p.94: Evaluation, Measurement, and Verification Budget is capped at 4% of overall portfolio budget.

	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition				
Market Support				
Equity				
EM&V				
Total (w/o C&S)				
Codes & Standards				
Total (w/ C&S)				

Decision (D).21-09-037, p.22 & 27  
Total System Benefit = The sum of the benefit in \$\$ that an efficiency measure provides to the electric & natural gas systems.

EE Policy Manual v6 p.30 requires cost-effectiveness to be reported with AND without codes and Standards (C&S).

# Scope of Regional Energy Networks (RENs)

([\*EE Policy Manual v6\*](#) , p.20-21)

1. Activities that utilities or CCA program administrators cannot or do not intend to undertake.
2. Pilot activities where there is no current utility or CCA program offering, and where there is potential for scalability to a broader geographic reach, if successful.
3. Activities serving hard-to-reach markets, whether or not there is another utility or CCA program that may overlap.

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# Portfolio Performance Overview

*Presentation by Energy Division*

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# 2024 EE Portfolio Annual Review

August 2025



California Public  
Utilities Commission

# Agenda

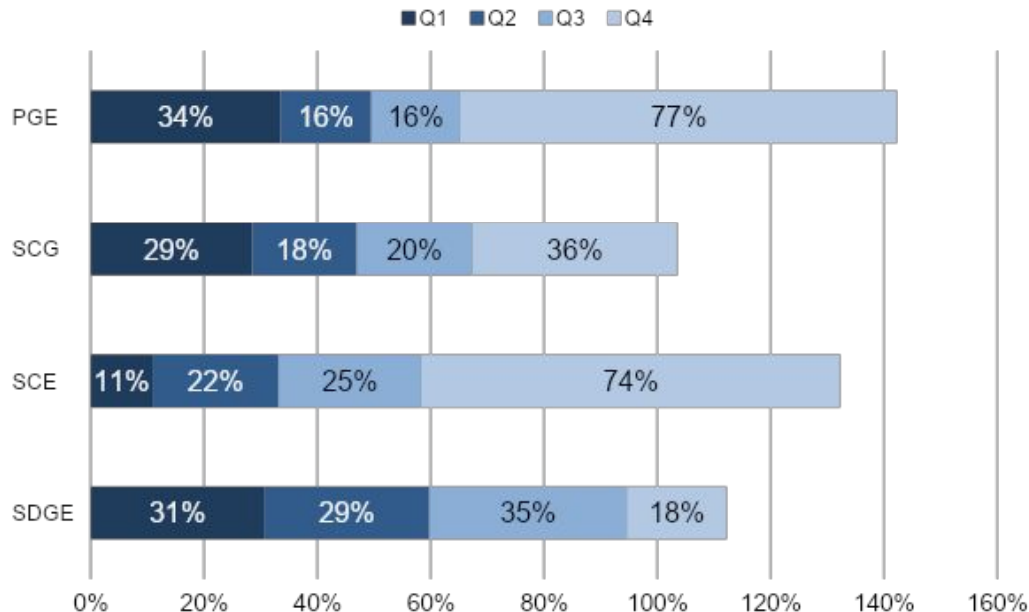
- 2024 Portfolio Lookback
  - Achievements Compared to Targets
  - Cost Effectiveness
  - Expenditures
  - TSB Achievement
  - Summary

# IOU Achievements vs Targets –2024 TSB

IOU	TSB (Million \$)			
	PGS Target*	Achieved	2024%	2023%
PGE	\$212	\$302	142%	60%
SCE	\$113	\$149	132%	42%
SCG	\$164	\$170	104%	138%
SDGE	\$45	\$51	112%	80%

- **All IOUs surpassed TSB targets in 2024.**
- All IOUs, except for SDGE, achieved a significant portion of their TSB targets in Q4.
- Significant increase in achieved TSB compared to 2023 (Note: TSB was not a goal metric for 2023, and changes in avoided costs and measure package parameters such as EUL and measure cost can significantly impact TSB and/or C-E).

IOU Quarterly Progress towards TSB Target



Excludes C&S, ESA, EM&V, ESPI

Sources:

TSB Target: [Decision Adopting Energy Efficiency Goals For 2024-2035](#), D.23-08-005

Achieved: [CEDARS 2024 record level claims](#), July 2025

# IOU Achievements vs Forecast –2024 GWh, MMTherms

IOU	GWH (1st Year)				MM Therms (1st Year)			
	IOU Forecast	Achieved	2024%	2023%	IOU Forecast	Achieved	2024%	2023%
PGE	838	345	41%	63%	65	36	55%	136%
SCE	608	92	15%	47%	6	8	136%	N/A
SCG	29	7	24%	N/A	81	27	34%	121%
SDGE	217	29	13%	46%	10	5	52%	132%

Excludes C&S, ESA, EM&V, ESPI

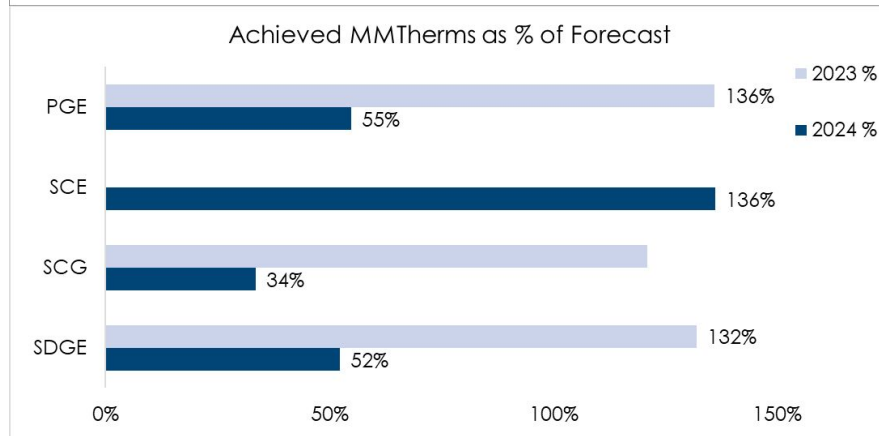
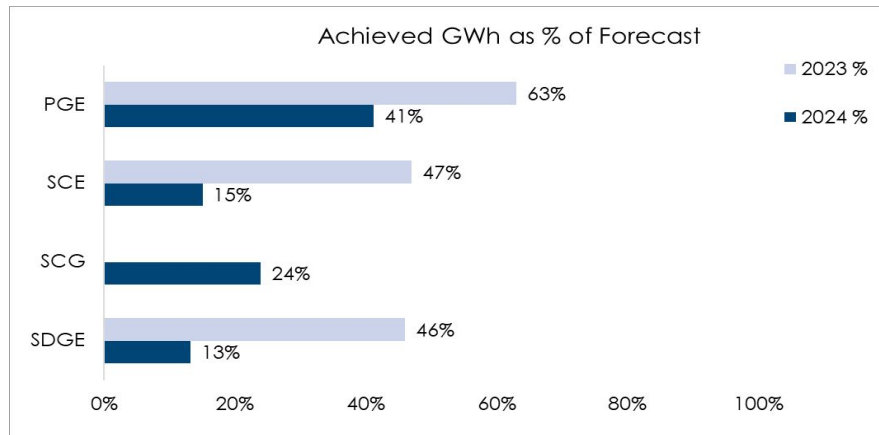
Sources:

IOU Forecast: [CEDARS True-Up Budget Filing 2024](#) – Annual Forecast for GWh, MW, and Therms

Achieved: [CEDARS 2024 record level claims](#), July 2025

\* Percentages in Green indicate that 2024 is performing better than the 2023 program year.

- Despite high TSB, Electric savings are much lower than 2023 because of negative savings from Fuel Substitution, particularly for SCE which has 45% of its TSB coming from Fuel Sub.
- Fuel Sub is the primary driver of high gas savings and low electric savings, particularly for SCE.
- Gas savings were considerably lower compared to 2023 performance, as a % of forecast.



# Cost Effectiveness

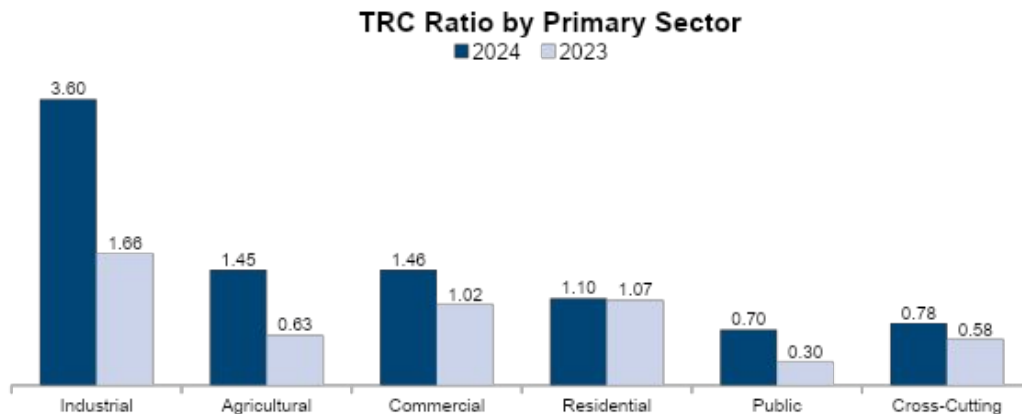
Excludes C&S, ESA, EM&V, ESPI

TRC Ratio by PA*			
PA		TRC (Forecast)	TRC (Claimed)
IOUs & CCA	PGE	1.81	1.90
	SCE	1.04	1.05
	SCG	1.95	1.76
	SDGE	1.15	0.98
	AVA	0.91	0.25
	MCE	1.01	0.35
	PCE	0.31	0.09
	SCP	0.73	Not Available
	SJCE	1.27	0.46
RENS* *	BAY	0.23	0.36
	SCR	0.44	0.57

\*Only for Resource Acquisition Program Segment

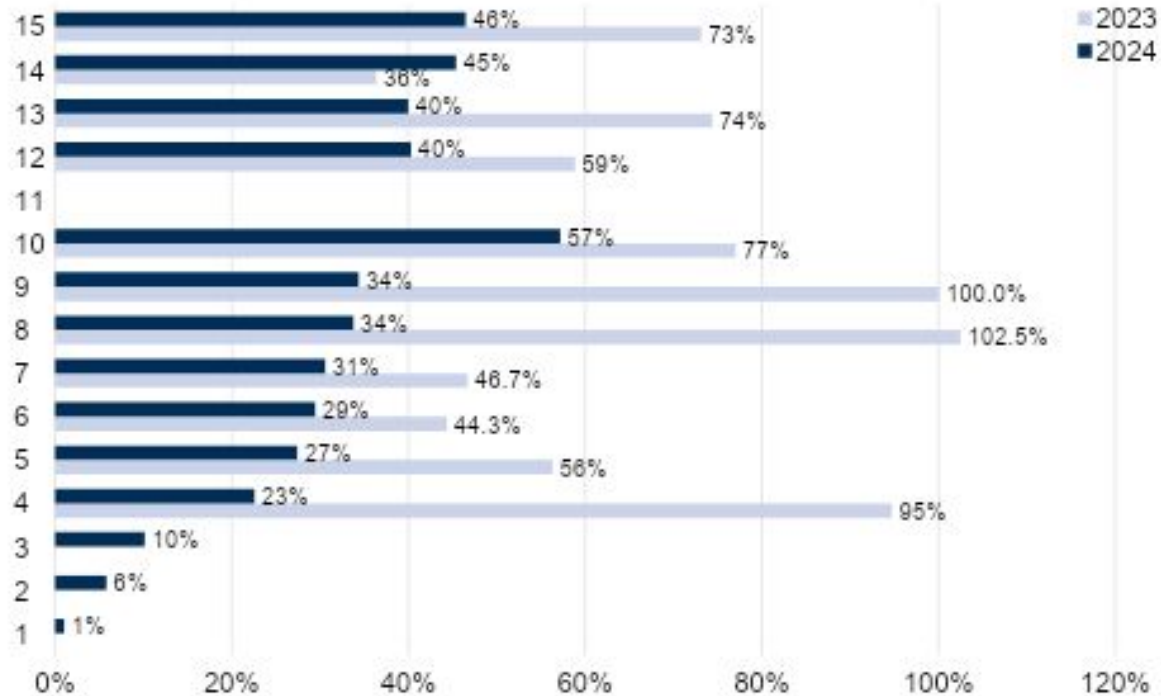
\*\* Excludes RENS with no TRC targets (IREN, 3CREN, SDRN, CCR)

- IOUs - PGE & SCE meet their forecasted TRC.
  - SCG TRC > 1.0 and SDGE TRC close to 1.0.
- RENS - BAY, SCR meet their forecasted TRC.
- Industrial sector saw a significant improvement in TRC – primarily driven by Custom SEM programs.



# Total Expenditure, as a % of Budget

Excludes program categories: C&S, ESA, EM&V, ESPI



Source:

Expenditure: [CEDARS 2024 record level claims](#), July 2025.

Annual Budget: [CEDARS True-Up Budget Filing 2024](#)

# Total Expenditure by Program Segment - IOUs

- SCG expended over 36% on Equity and Market Support. All other IOUs remain within 30%.
- Most IOUs spend majority of Equity and Market Support budget toward Market Support, except for SCG.
- All spending at the program segment level was within forecasted budget.

Total Expenditure by Program Segment												
	PA	Resource Acquisition (RA)			Market Support (MS)			Equity (E )			Total E & MS Expenditure as % of Total Expenditure	Total Expenditure*
		Expenditure	Budget	RA Spend vs Budget	Expenditure	Budget	MS Spend vs Budget	Expenditure	Budget	Equity Spend vs Budget		
IOU	SCE	\$131,465,226	\$227,842,140	58%	\$40,577,380	\$131,148,238	31%	\$4,582,168	\$33,078,069	14%	26%	\$176,624,774
	PGE	\$127,744,669	\$245,091,583	52%	\$27,498,088	\$84,892,896	32%	\$8,956,318	\$16,240,123	55%	22%	\$164,199,075
	SCG	\$75,687,633	\$192,391,710	39%	\$18,597,709	\$44,004,090	42%	\$24,298,534	\$51,970,747	47%	36%	\$118,583,875
	SDGE	\$43,964,673	\$102,167,924	43%	\$10,442,379	\$29,510,605	35%	\$2,329,994	\$8,629,212	27%	23%	\$56,737,045

\* Total Expenditure for RA, MS, and E segments only - excludes C&S, ESA, EM&V, ESPI

# Total Expenditure by Program Segment – CCA/ REN

- Majority of REN expenditures are in the Equity and Market Support segments.
- All spending at the program segment level was within forecasted budget.

Total Expenditure by Program Segment												
	PA	Resource Acquisition (RA)			Market Support (MS)			Equity (E )			Total E & MS Expenditure as % of Total Expenditure	Total Expenditure
		Expenditure	Budget	RA Spend vs Budget	Expenditure	Budget	MS Spend vs Budget	Expenditure	Budget	Equity Spend vs Budget		
CCA/REN	SCR	\$13,308,250	\$31,392,967	42%	\$11,645,994	\$36,845,202	32%	\$3,030,361	\$13,199,478	23%	52%	\$27,984,606
	BAY	\$4,133,378	\$9,661,610	43%	\$5,013,193	\$10,800,262	46%	\$15,002,197	\$49,008,918	31%	83%	\$24,148,768
	MCE	\$5,329,717	\$25,936,615	21%	\$965,264	\$1,950,680	49%	\$4,272,503	\$9,838,691	43%	50%	\$10,567,485
	3CREN	\$0	\$0	-	\$1,816,148	\$6,514,091	28%	\$7,165,983	\$21,700,500	33%	100%	\$8,982,131
	IREN	\$0	\$0	-	\$1,265,357	\$5,959,065	21%	\$4,514,208	\$12,576,955	36%	100%	\$5,779,565
	PCE	\$3,084,099	\$5,393,642	57%	\$0	\$0	-	\$0	\$0	-	0%	\$3,084,099
	SJCE	\$768,234	\$3,403,455	23%	\$0	\$0	-	\$0	\$0	-	0%	\$768,234
	RRN	\$172,947	\$1,096,035	16%	\$0	\$0	-	\$167,103	\$1,987,709	8%	49%	\$340,050
	SDRN	\$43,270	\$4,204,000	1%	\$106,714	\$10,368,000	1%	\$144,570	\$14,046,000	1%	85%	\$294,554
	CCR	\$38,784	\$127,880	30%	\$0	\$0	-	\$216,376	\$4,328,920	5%	85%	\$255,160

\* Total Expenditure for RA, MS, and E segments only - excludes C&S, ESA, EM&V,

ESPI

California Public Utilities Commission

Source:

Expenditure: [CEDARS 2024 record level claims](#), July 2025.

Annual Budget: [CEDARS True-Up Budget Filing 2024](#)

# TSB by PA and Primary Sector

Excludes C&S, ESA, EM&V, ESPI

## IOU:

- PGE delivers substantially in every sector.
- PGE delivers the most TSB in Industrial, largely driven by Custom SEM.
- SCE delivers the most TSB in the Com sector, driven by Com Water Heating.

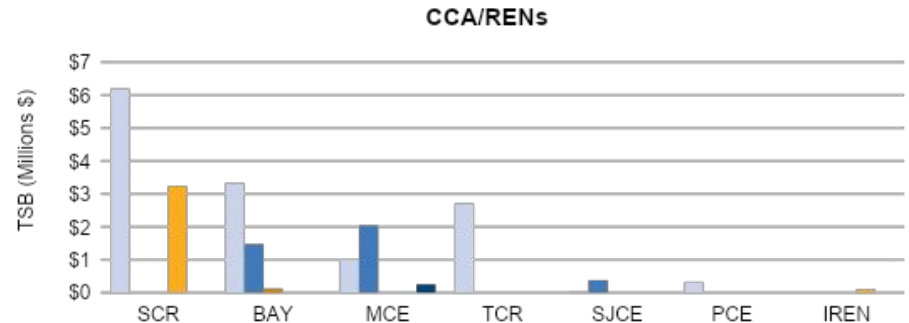
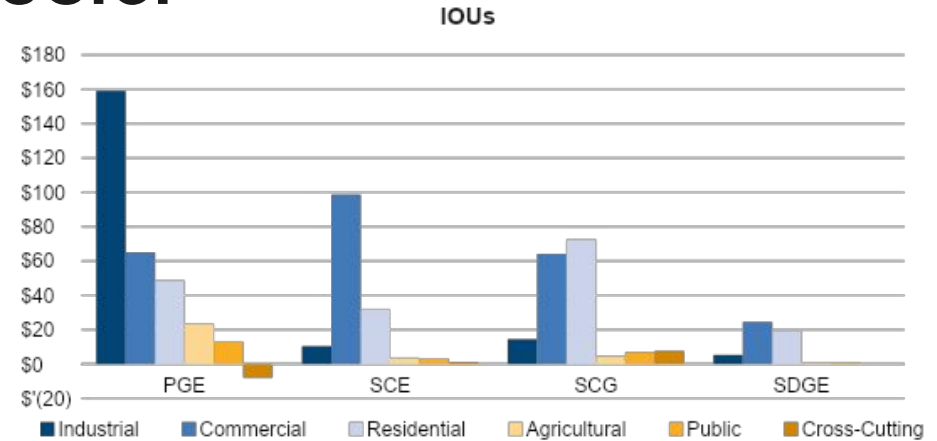
## CCA/REN:

- Majority of CCA/REN TSB is from Residential sector.
- SCR high TSB is driven by Residential and Public Sectors.

Note: TSB achievements typically in proportion to size of territory.

California Public Utilities Commission

Source: [CEDARS 2024 record level claims](#), July 2025.

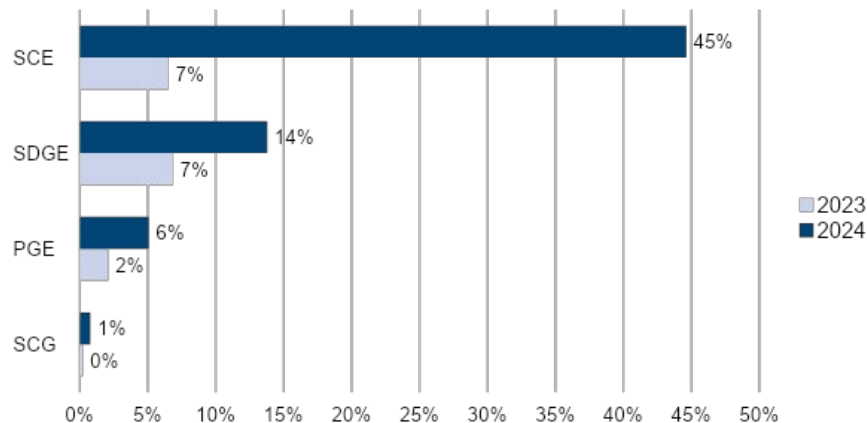


# Fuel Substitution

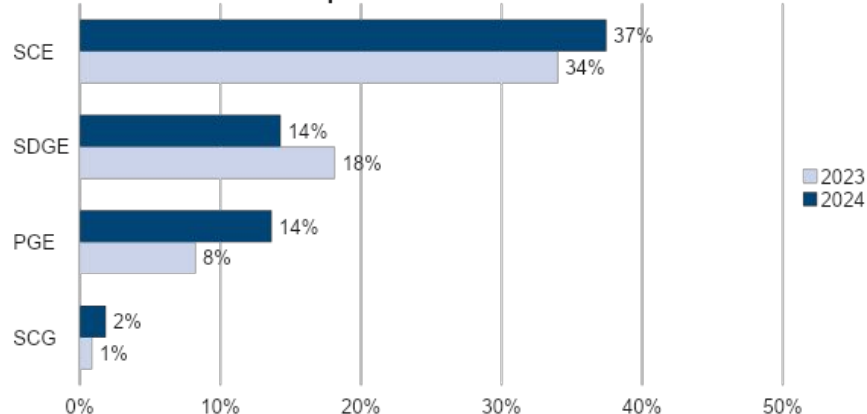
Excludes C&S, ESA, EM&V, ESPI

- All electric/ dual fuel utilities saw significant growth in Fuel Substitution measures.
- SCE has 45% of total TSB coming from Fuel Sub.
- Most of SCE's Fuel Sub savings are from Comprehensive Commercial Program
- Compared to 2023 PY - IOUs delivered increasing TSB from Fuel Sub, while spend, as a percent of budget, remained similar.

Percent of TSB from Fuel Substitution



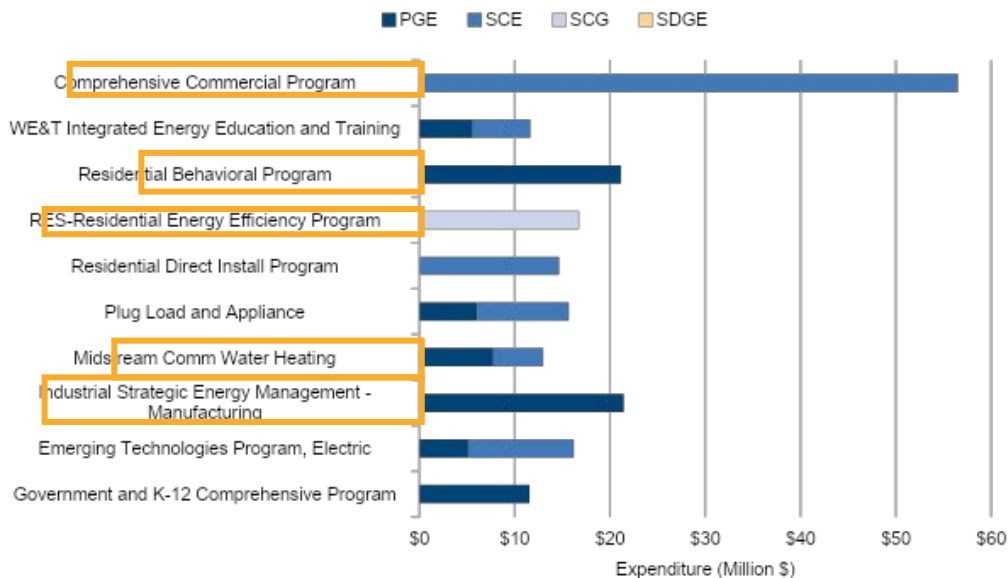
Percent of Expenditure Towards Fuel Substitution



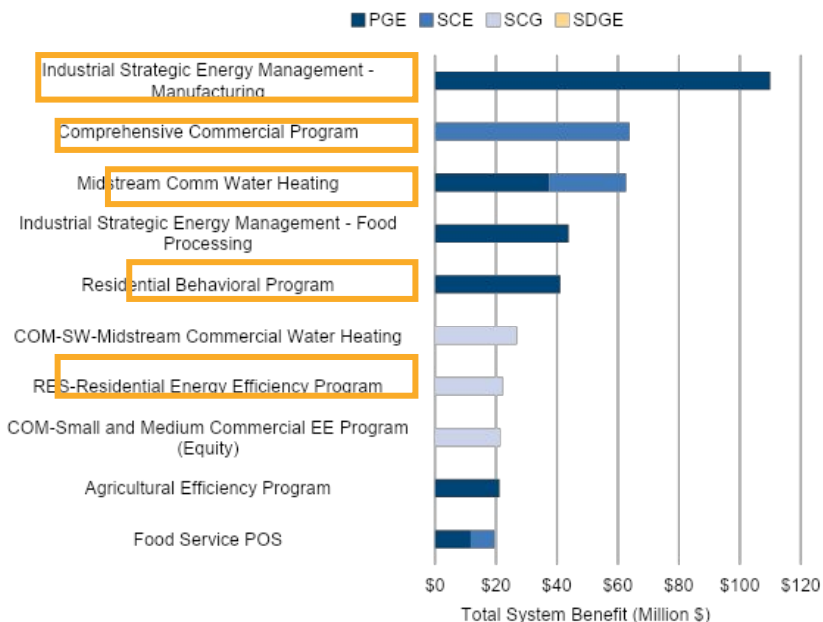
# Top 10 Programs by Expenditure and TSB, by PA

Excludes C&S, ESA, EM&V, ESPI

Expenditure (Million \$) by Program



TSB (Million \$) by Program



Note: **Orange** highlights represent programs that are top in **both** expenditures and TSB.

# Summary

- All IOUs met and **exceeded** TSB targets.
- IOU claims met – or came close to – Cost Effectiveness requirements.
  - Increased cost effectiveness for all sectors compared to 2023.
- Major drivers of portfolio TSB are:
  - Industrial (SEM program)
  - Commercial Water Heating (mostly Fuel Sub)
- Significant growth in fuel substitution compared to 2023.

## **Need to increase focus on:**

- Are we getting strong outcomes for: overall affordability, GhG reduction, and peak electric impacts?
- Across all sectors, barriers to capital project growth (vs. Light touch/ BROs).
- How to better monitor achievements in Equity & Market Support Segment.
  - Indicators and Common Metrics resolution will help with this effort

For future Energy Division updates:

- Deeper look of portfolio-wide loadshape analysis, particularly for electric savings and fuel substitution.

# Thank You

# Placeholder – Screenshare



# California Public Utilities Commission

## Overview of New PAs

Central CA Performance Review

Southern CA IOUs Performance Review

Southern CA RENS Performance Review

NorCal Performance Review

Key Themes

Wrap Up

# Overview of New PAs

CCRREN

NREN

SDREN

Lunch

Break

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# CCRREN

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# **Central California Rural Regional Energy Network**

## **2024 Portfolio Performance Report Review**

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August 5, 2025

Trevor Keith, County of SLO  
Director Planning and Building





# **Central California Rural REN**

**Central California Rural REN** was approved by the CPUC in September 2024, to operate from 2024 to 2027.

**County of San Luis Obispo** is the Lead Administrator for the CCR REN and is responsible for coordinating with partners to implement programs and complete reporting requirements.

**CCR REN** will offer six programs, primarily designed to serve hard-to-reach customers and disadvantaged and underserved communities.



# Leadership and Territory



Association of Monterey Bay Area Governments



San Joaquin Valley Clean Energy Organization

**SJVCEO**  
Clean Energy Organization



High Sierra Energy Foundation



County of San Luis Obispo



County of Ventura



# CCR REN Programs

	<b>Residential</b>	Energy efficiency audits and installation of simple measures.
	<b>WE&amp;T</b>	Youth workforce education and training program.
	<b>Commercial</b>	No-cost electrification projects for commercial customers.
	<b>Public</b>	Support for hard-to-reach public agencies in Monterey Bay.
	<b>Codes and Standard</b>	Training and technical assistance for building professionals.
	<b>Finance</b>	Finance program is slated to launch in 2026.



# 2024 Highlights

**Approved the governance structure of the Central California Rural REN**

**Executed a funding agreement between the County of San Luis Obispo and Southern California Edison**

**Completed procurement processes for \$21.4 million of consultant services to successfully implement programs**

**Submitted the CCR REN update business plan and advice letter to the CPUC for approval on December 31<sup>st</sup>, 2024.**





## **2025 Progress**

**Kicked off Joint Cooperation Memorandum (JCM) development with program administrators for two JCMs**

**Submitted 2024 Annual Report**

**Held public workshops, submitted implementation plans, and launched five of the six programs to be offered by CCR REN**

**Kicked off 2028-2031 Business Plan Application coordination and community/stakeholder engagement activities**

CENTRAL CALIFORNIA RURAL REGIONAL ENERGY NETWORK

**For rural, by rural.**



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# NREN

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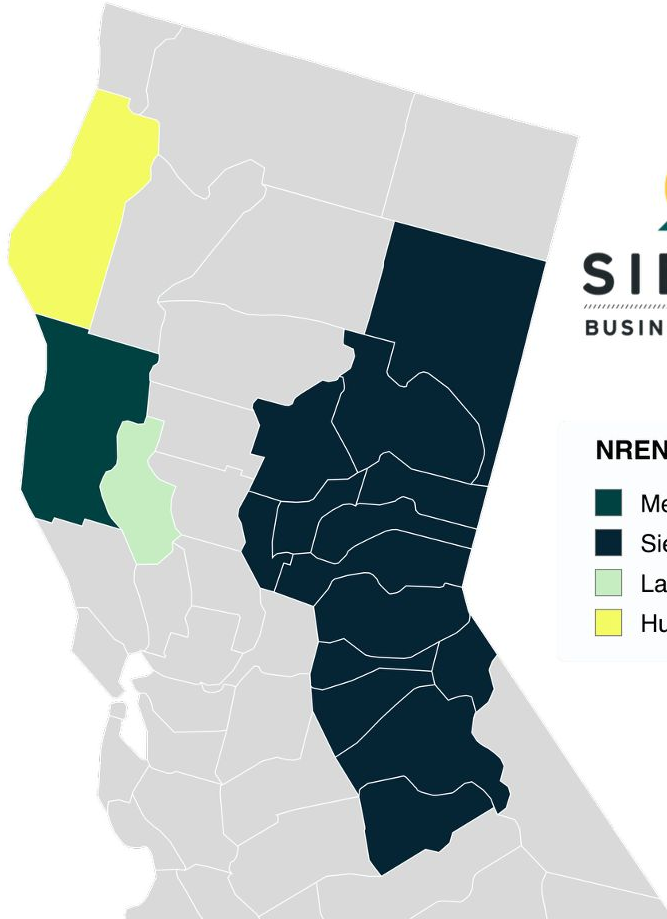
# 2024 Annual Portfolio Performance Report

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Northern Rural  
Energy Network



# NREN Service Area



**SIERRA**  
BUSINESS COUNCIL

## NREN Partner Territories

-  Mendocino County
-  Sierra Nevada Region
-  Lake County
-  Humboldt County

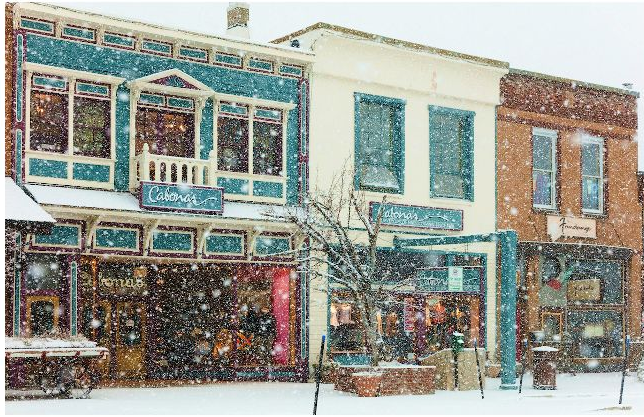


# 2024 Spend

2024 Spend vs. Budget	
2024 Spend %	18.5%

Program Name	2024 Spend	2024 Budget
Residential Equity	\$80,257	\$271,973
Residential Resource Acquisition	\$106,203	\$293,093
Commercial Resource Acquisition	\$54,950	\$224,351
Finance Equity	\$41,613	\$593,860
Public Equity	\$6,145	\$25,377
Workforce Education & Training	\$24,982	\$69,398
Codes and Standards	\$10,876	\$22,252
RA Portfolio Support	\$11,794	\$30,573
Equity Portfolio Support	\$14,107	\$33,246
C&S Portfolio Support	\$918	\$1,432
EM&V	\$0	\$137,290
IDSM	\$0	\$0
<b>TOTAL</b>	<b>\$315,844</b>	<b>\$1,702,846</b>





## Programs Launching

- **Residential Equity** – *Outreach and education, Energy Efficiency Kits, Phone Assessments, Reports, in-home assessments*
- **Residential Resource Acquisition** – *Rebate catalog, Direct Install*
- **Commercial Resource Acquisition** – *Direct Install, NMEC*
- **Public Equity** – *Benchmarking, Assessments, Project support*
- **Workforce, Education & Training** – *Local contractor training*

## 2025 Portfolio Activities

- **Codes & Standards** – in development
- **Finance Program** – in development with consultant (Frontier)
- Residential needs assessment (SMUD)
- Non-residential needs assessment – tribes, public, contractors, small business (ERI)
- NMEC program development with consultant (KW)
- Metrics and Indicators (E-5351) – developing data collection
- Website and branding
- New staff hiring and onboarding

# Thank You

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# SDREN

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# San Diego Regional Energy Network (SDREN)

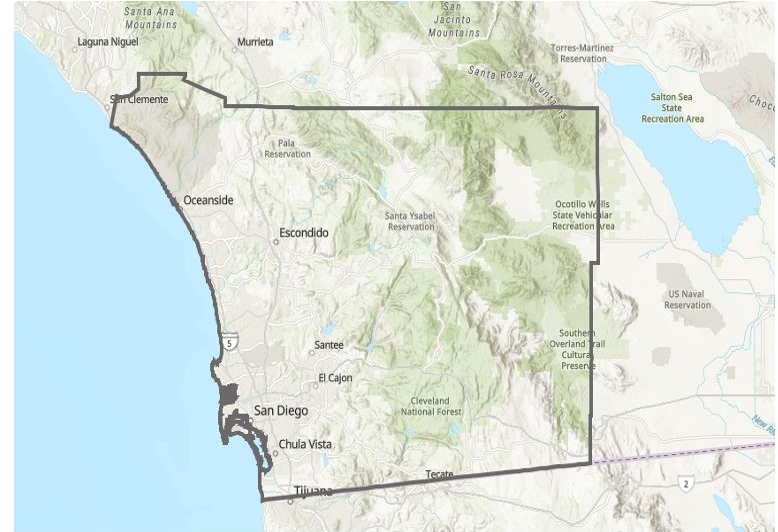
Annual Portfolio Performance Report Review

August 5, 2025

# SDREN Service Territory: San Diego County

## San Diego County

- 3.3 million people
- 18 incorporated cities
- 18 federally recognized tribes
- 70-miles of coastline
- International border
- High concentration of small businesses

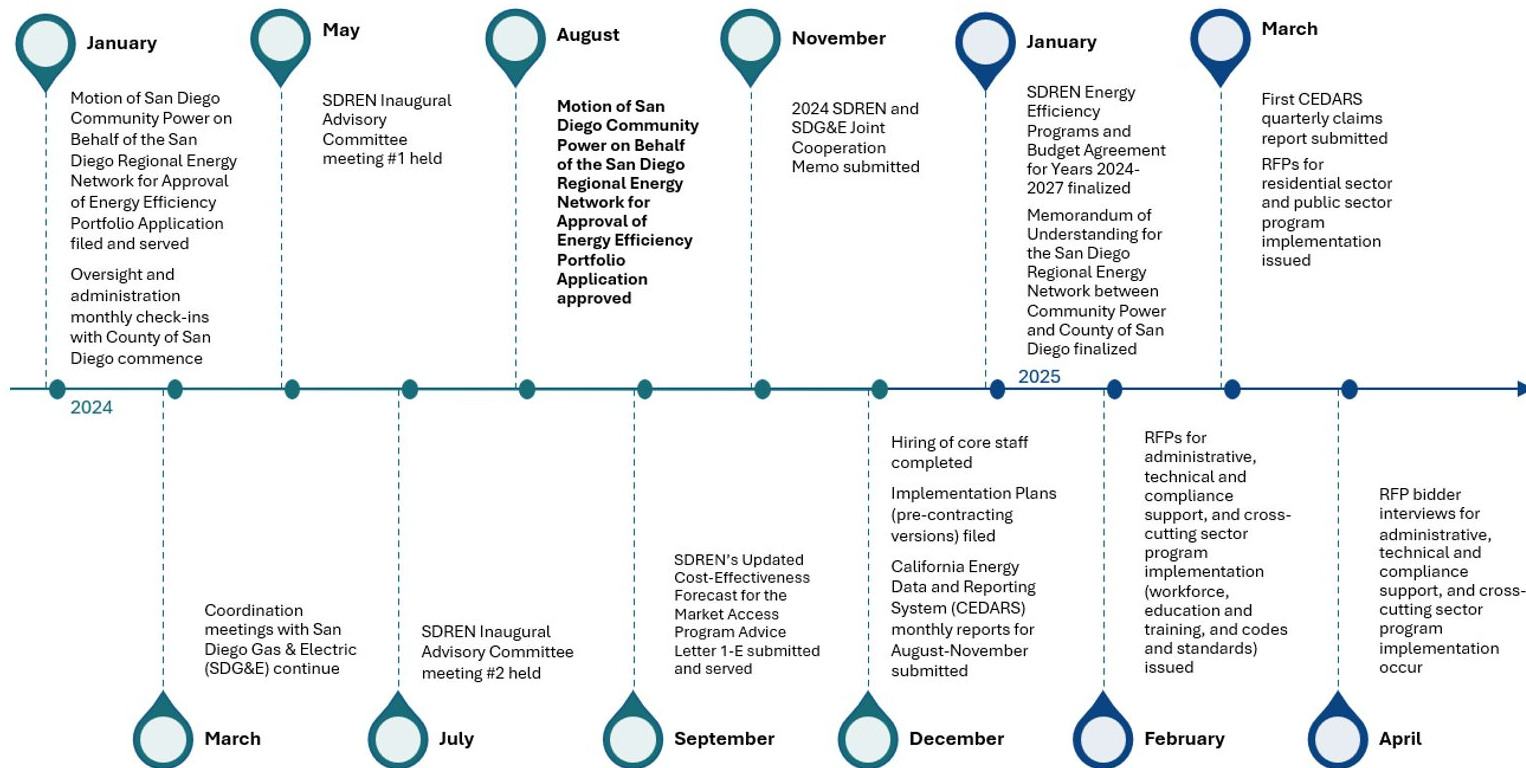


# 2024 Spend

- SDREN spend began in August 2024 upon CPUC authorization

Cost Category	Amount
Administration	\$282,835
Marketing, Education, & Outreach	\$30,945
Direct Implementation – Non-Incentives	\$0
Direct Implementation – Incentives	\$0
<b>Total</b>	<b>\$313,780</b>

# Portfolio Activities 2024



# 2025 Portfolio Activities

- Phased release of solicitations beginning in February 2025 for SDREN's 10 programs across residential, public, commercial, codes and standards and workforce, education and training sectors
- Programs launching by EOY 2025
- Website and branding
- Executed Programs and Budget Agreement with SDG&E and continued coordination meetings
- 2024 Annual Report and CEDARS reporting



# Questions & Input

*First from CAEECC Members  
then from the Public*

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**Central CA Performance Review**

**Southern CA IOUs Performance Review**

**Southern CA RENS Performance Review**

*Lunch*

**NorCal Performance Review**

*Break*

**Key Themes**

**Wrap Up**

# Central CA Performance Review

3CREN

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# 3CREN

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Tri-County Regional Energy Network  
CAEECC 2024 Report Out  
8-5-2025 PPRR Meeting

# 2024 Portfolio Key Highlights - Qualitative

## Building Performance Training

- 8 in-person HPWH training sessions held for plumbers at supply houses across the region
- HPWH training also offered via on-site home installs, in partnership with SunWork, a non-profit contractor
- 2,091 total attendees at 115 workforce training events
- Partnerships with trade schools in low-income areas bring services to underserved communities

## Energy Code Connect

- 142 energy code inquiries; most common topics include: compliance documentation and energy modeling
- 347 total attendees at 25 code-focused training events
- 254 attendees at April 2024 forum focused on the 2025 energy code

## Multi-Family Home Energy Savings Program

- 430% increase in units served by projects at multifamily properties
- 90% of projects were HTR, Underserved, deed-restricted, or located in an AB1550 community
- 2 projects for affordable senior living sites (130 units in Santa Maria and 38 units in Ventura)
- 2 projects (totaling 322 units) installed heat pump water heaters (HPWH), both in AB1550 communities
- Best practices: cultivate relationships and offer high-touch technical assistance, partner with County elects on outreach, work with owners' preferred contractors, incentive stacking for heat pump/HPWH projects, customization and flexibility

## Single Family Home Energy Savings Program

- 62% increase in projects for single family homes
- 97% realization rate for kWh savings, 81% for therms, 92% for TSB
- 15% of projects for single family homes included more than one measure
- 67% of projects for single family homes were electrification projects
- 665% increase in heat pump water heater (HPWH) installs at single family homes; incentive stacking helped drive adoption

# Unique Value Metrics

## Cross-cutting: WET and C&S

Number of jobs and economic value,  
inclusive of job creation at counties

*In 2024, **83.1%** of surveyed attendees responded that 3C-REN training **improved the economic value of their company** (e.g., by gaining knowledge that helps them win bids or cut costs)*

## Workforce, Education, and Training

Percentage of event 3C-REN attendees  
considered hard-to-reach (HTR)

*In 2024, **11.5%** of attendees at C&S met HTR criteria, using census tract info as a proxy for income*

## Equity Segment

Jurisdictions receiving data metric

*In 2024, **100%** of jurisdictions received data on the performance of 3C-REN's equity programs in their jurisdictions (e.g. number of projects and energy savings)*

## Codes & Standards

Percentage of event 3C-REN attendees  
considered hard-to-reach (HTR)

*In 2024, **9.4%** of attendees at C&S met HTR criteria, using census tract info as a proxy for income*

# Key Challenges

## Commercial Energy Savings

- **Serving HTR businesses requires a significant timeline** to recruit and implement projects
- **HTR businesses are requesting audits** as they have a knowledge gap about what their business requires
- **HTR businesses want to electrify** but often cannot due to high implementation costs and the prospect of higher energy bills
- **No partner like Sealed for commercial sector** that helps with energy savings calcs, financing, etc.

## Multi-Family Home Energy Savings Program

- **Property decision makers and contractors are unfamiliar with newer technologies** and concerned about performance and maintenance; performance can be a challenge if water heater isn't properly installed or has manufacturer issues
- **Time and attention from decision makers is limited**; upgrades are not a priority, and comprehensive retrofits are not standard business as usual; customers accustomed to replacing single measures upon failure
- **Inconsistent rebate levels and tight deadlines of co-leveraged programs** (e.g., CCCE, TECH, TECH Pilots) create planning challenges
- **Decarbonization is more challenging as electricity rates rise**

## Single Family Home Energy Savings Program

- **Larger incentives for HTR projects** were not enough to motivate contractors to serve equity customers; budget allocations are useful
- **Budget is stretched thin**, even after lowering incentives – indicates healthy participation, but may consider implementing month-by-month budgets/mechanisms in future to ensure program continuity
- **No-cost projects** are needed for the hardest to reach customers; incentive stacking helps address this challenge
- **Spanish-speaking contractors** are a must for serving residential HTR customers at single family homes in the tri-county region
- **Smaller contractors not always equipped to participate in NMEC programs** that have added complexity like savings forecasts

## 2024 Portfolio Key Highlights - Quantitative

	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition	-	-	-	-
Market Support	-	\$1,816,147	-	-
Equity	\$1,443,509	\$7,027,208	0.12	0.28
EM&V	-	\$50,707		
<b>Total (w/o C&amp;S)</b>	<b>\$1,443,509</b>	<b>\$8,894,062</b>	<b>0.11</b>	<b>0.22</b>
Codes & Standards	-	\$879,260	-	-
<b>Total (w/ C&amp;S)</b>	<b>\$1,443,509</b>	<b>\$9,773,323</b>	<b>0.10</b>	<b>0.20</b>

# 2024 and 4-year Portfolio Key Highlights - Quantitative

Budget Composition		2024 vs 4-year Portfolio Budget vs. Spend (%)		2024 vs 4-year TSB Goal vs. Achieved (%)	
2024 Equity + Market Support Composition <i>(IOUs require &lt;30% for MS&amp;E)</i>	2024 Admin Cap/Target (%)	2024 Budget: <b>\$16,575,462</b>  2024 Spend: <b>\$9,773,323</b>	2024: <b>59%</b> Spend	2024 TSB Goal: <b>\$7,073,894</b> 2024 TSB Achieved: <b>\$1,443,508</b>	2024: <b>20%</b> TSB Achieved
<b>85%</b>	<b>10%</b>	4-year Budget: <b>\$71,367,490</b>  4-year Spend: <b>\$9,773,323</b>	4-year: <b>13%</b> Spend	4-year TSB achieved <b>\$1,443,508</b>	4-year <b>4%</b> achieved

NOTE: There was a calculation error when 3C-REN's TSB goal was set. This goal will be updated in MCAL. This error only affected the goal; all TSB achievements are accurately reported

## 2024 vs 2023 Claims by Sector

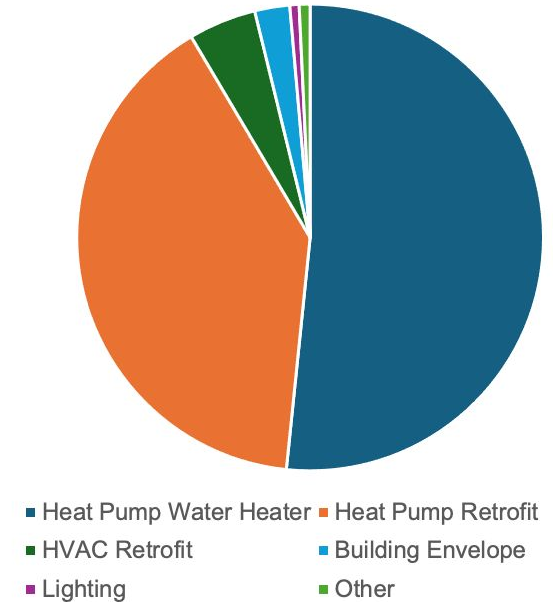
2024	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
TSB (net, w/o C&S, w/C&S)	-	-	-	-	-	\$1,443,508	\$1,443,508
Lifecycle GHG (net, w/o C&S)	-	-	-	-	-	5,066	5,066

2023	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
TSB (net, w/o C&S, w/C&S)	-	-	-	-	-	\$587,123	\$587,123
Lifecycle GHG (net, w/o C&S)	-	-	-	-	-	3,687	3,687

# Portfolio Measures & TSB Deep Dive

Top 5 Measures in Portfolio	Cumulative Portfolio TSB Attained from Measure (\$)	Applicable Sectors
Heat Pump Water Heater	\$745,255	Residential
Heat Pump Retrofit	\$575,414	Residential
HVAC Retrofit	\$67,702	Residential
Building Envelope	\$35,017	Residential
Lighting	\$9,270	Residential

Measure TSB Composition



# Open Discussion / Questions

PA Name: 3C-REN  
Contact Name: Alejandra Tellez  
Contact Email: [Alejandra.tellez@ventura.org](mailto:Alejandra.tellez@ventura.org)

# Questions & Input

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**Southern CA IOUs Performance Review**

**Southern CA RENS Performance Review**

*Lunch*

**NorCal Performance Review**

*Break*

**Key Themes**

**Wrap Up**

# Southern CA IOUs Performance Review

SCE

SoCalGas

SDG&E

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# SCE

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# CAEECC 2024 Full Year Report Out

Presenter: Ashley Hall

August 5, 2025

# 2024 Portfolio Key Highlights - Qualitative

- **Focus on Affordability** - SCE actively collaborated with third-party implementers to deliver cost effective Energy Efficiency (EE) programs, executing eleven contract amendments to enhance program delivery. Due to market conditions and cost-effectiveness challenges, SCE terminated two contracts for the Comprehensive Industrial Program and Comprehensive Multifamily Program.
- **Customer Outreach Efforts** - SCE facilitated customer introductions for third-party implementers and sent ten bulk emails, reaching over 720,000 customers with a 48% open rate. The communications included information about lighting, funding resources, HVAC, refrigeration, motors and drives, advanced controls, and proper equipment selection. These efforts increased awareness of EE programs and resources.
- **Introducing Population Normalized Meter Energy Consumption (NMEC) Programs** - SCE launched two new Market Access Programs, serving commercial, public, and residential sectors. These programs are expected to deliver approximately \$46 million in TSB over three years.
- **Success with EE Heat Pump Water Heaters (HPWH)** - SCE promoted electrification through HPWH measures, collaborating with a third-party implementer to increase TSB delivery. The implementer exceeded base contract expectations by 225% by delivering a total of \$63.8 Million TSB in 2024. TSB opportunities are likely to change in 2026 as measure package changes are incorporated.
- **Sustaining Success with Codes and Standards (C&S)** - SCE's C&S Team helped adopt the 2025 Title 24 Building Code and CALGreen Code, saving 313 GWh and reducing peak demand by 59 MW. They supported new U.S. Department of Energy appliance standards, promoted zero-emission water heater rules, developed calgreeninfo.com, conducted 140+ compliance classes, trained 3,000+ attendees, and facilitated Reach Codes in Goleta and Santa Monica.

# Key Challenges & Mitigation Strategies

- **Customer Affordability**

- Provide EE solutions that help customers manage their energy usage and save customers money.
- Ensure customer dollars are funding programs that are most cost-effective.

- **Measure Diversification within the 3P model**

- Drive performance across EE programs to generate more balanced results for SCE's EE portfolio including Equity programs.
- Amend contracts and create new agreements that mitigate risks and increase measure offerings.

- **Accelerate Clean Power and Electrification**

- Promote greenhouse gas (GHG) emission reductions and permanent load shedding on the grid.
- Sustain long-term energy savings as measured by TSB.

- **Remove Market Barriers**

- Advocate for policies and regulations that simplify programs and provide stability for SCE's customers and implementers.
- Early communication & advocacy on changing measure packages and/or decisions impacting savings calculations and available offerings.
- Encourage bidder diversification and equitable outcomes for Disadvantaged Communities (DACs).

# 2024 Portfolio Key Highlights - Quantitative

	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition	\$148,123,946	\$105,959,607	1.05	1.09
Market Support	\$733,503	\$14,997,506	0.06	0.05
Equity	\$23,963	\$4,042,555	0.01	0.01
EM&V	N/A	\$1,506,196	N/A	N/A
<b>Total (w/o C&amp;S)</b>	<b>\$148,881,412</b>	<b>\$126,505,863</b>	<b>0.86</b>	<b>0.88</b>
<b>Codes &amp; Standards</b>	\$1,058,305,554	\$13,007,010	1.57	49.52
<b>Total (w/ C&amp;S)</b>	<b>\$1,207,186,966</b>	<b>\$139,512,873</b>	<b>1.39</b>	<b>5.06</b>

\*Excludes data from REN/CCA Programs.

# 2024 and 4-Year Portfolio Key Highlights - Quantitative

Budget Composition	
<b>2024 Equity + Market Support Composition</b> <i>(IOUs require &lt;30% for MS&amp;E)</i>	<b>2024 Admin Cap (%)</b>
15%	14%

2024 vs 4-Year Portfolio Budget vs. Spend (%)	
<b>2024 Budget:</b> \$227,648,643  <b>2024 Spend:</b> \$139,512,873	2024 61% Spend
<b>4-Year Budget:</b> \$1,143,059,488  <b>4-Year Spend:</b> \$139,512,873	4-Year 12% Spend

2024 vs 4-Year TSB Goal vs. Achieved (%)	
<b>2024 TSB Goal:</b> \$112,534,778  <b>2024 TSB Achieved:</b> \$148,881,412	2024 132.3% TSB Achieved
<b>4-Year TSB Achieved:</b> \$148,881,412	4-Year 30% Achieved

\* Excludes data from REN/CCA Programs.

# 2024 vs 2023 Claims by Sector

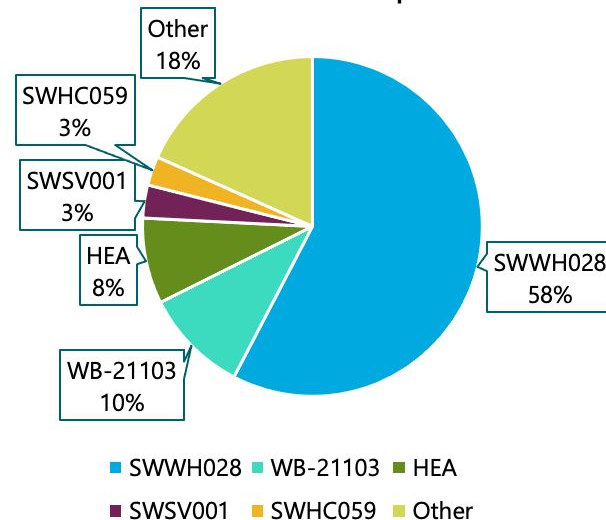
2024	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b>	\$3,474,019	\$98,832,402	\$1,106,617	\$10,430,678	\$3,207,507	\$31,830,189	\$148,881,412
<b>Lifecycle GHG (Net, w/o C&amp;S)</b>	14,070	266,219	6,652	52,331	6,956	54,216	400,443

2023	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b>	\$814,393	\$37,364,376	\$310,995	\$11,241,455	\$742,971	\$17,249,058	\$67,723,249
<b>Lifecycle GHG (Net, w/o C&amp;S)</b>	2,298	128,777	949	34,190	2,549	39,476	208,239

# Portfolio Measures and TSB Deep Dive

Top 5 Measures in Portfolio*	Cumulative Portfolio TSB Attained from Measure (\$)	Applicable Sector(s)
Heat Pump Water Heater (SWWH028)	\$60,304,424	Commercial
SEM Whole Building (WB-21103)	\$10,430,678	Industrial & Commercial
Home Energy Report (HEA)	\$8,547,443	Residential
Duct Seal and Test (SWSV001)	\$3,281,810	Residential
Smart Fan Controller (SWHC059)	\$ 2,893,588	Residential

Measure TSB Composition



\*Excludes data from Non-SCE Led Statewide and REN/CCA Programs.

## Open Discussion / Questions

Ashley Hall  
Senior Manager  
Southern California Edison  
Ashley.Hall@sce.com

# Questions & Input

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# **Regional Q&A:** *Central California*

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# SoCalGas

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# CAEECC 2024 ANNUAL REPORT OUT

8-05-2025

# 2024 Portfolio Key Highlights - Qualitative

## Program Expansion & Innovation

- ❖ Launched IDEEA365 to attract diverse, innovative businesses to the EE space
- ❖ Supported new technologies through GET programs
- ❖ Streamlined implementation via digital platforms and third-party collaborations
- ❖ EE financing activities more than doubled

## Community & Equity

- ❖ Engaged over 2M customers, including DAC and HTR areas
- ❖ Received \$2M grant from USBR to implement water efficiency
- ❖ Reached over 30k students through WE&T

## Environmental Impact

- ❖ Achieved 260,000+ net metric tons of CO<sub>2</sub> emissions avoided
- ❖ Delivered innovative low-NO<sub>x</sub> and decarbonization technologies
- ❖ EPA partner of the year (2023 and 2024)

# Key Challenges

- ❖ Challenging economic conditions, rising capital costs and high interest rates; EE upgrades less accessible
- ❖ Low engagement in underserved communities
- ❖ Limited participation from new or diverse EE implementers



- ❖ Offered Eco Financing loans for underserved borrowers
- ❖ Expanded Equity programs with multilingual outreach and tailored incentives
- ❖ Expanded IDEEA365 to attract and onboard small businesses

# 2024 Portfolio Key Highlights - Quantitative

	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition	\$155,765,210	\$76,538,657	1.77	2.05
Market Support	\$577,903	\$18,597,707	0.04	0.04
Equity	\$16,424,466	\$24,298,534	0.64	0.69
EM&V	\$0	\$1,740,697		
<b>Total (w/o C&amp;S)</b>	<b>\$172,767,580</b>	<b>\$121,175,596</b>	<b>1.31</b>	<b>1.47</b>
Codes & Standards	\$293,374,314	\$1,755,211	1.61	167.14
<b>Total (w/ C&amp;S)</b>	<b>\$466,141,894</b>	<b>\$122,930,807</b>	<b>1.48</b>	<b>3.88</b>

# 2024 and 4-year Portfolio Key Highlights - Quantitative

Budget Composition	
<b>2024 Equity + Market Support Composition</b> <i>(IOUs require &lt;30% for MS&amp;E)</i>	<b>2024 Admin Cap (%)</b>
28%	4%

2024 vs 4-year Portfolio Budget vs. Spend (%)	
2024 Budget: \$153,968,285  2024 Spend: \$122,930,807	2024 - 79.8% Spend
4-year Budget: \$615,873,146  4-year Spend: \$122,930,807	4-year - 19.9% Spend

2024 vs 4-year TSB Goal vs. Achieved (%)	
2024 TSB Goal: \$164.4 MM  2024 TSB Achieved: \$172.8 MM	2024 - 105% TSB Achieved
4-year TSB Goal \$772.5 MM  4-year TSB achieved \$172.8 MM	4-year - 22.4% TSB Achieved

# 2024 vs 2023 Claims by Sector

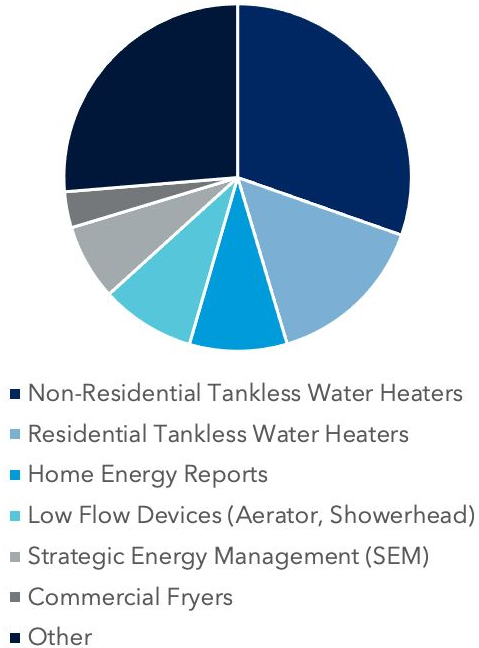
2024	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB (net, w/o C&amp;S)</b>	\$4,690,946	\$64,023,058	\$7,617,830	\$16,927,882	\$6,943,435	\$72,564,429	\$172,767,580
<b>TSB (net, w/C&amp;S)</b>	\$4,690,946	\$64,023,058	\$300,992,145	\$16,927,882	\$6,943,435	\$72,564,429	\$466,141,894
<b>Lifecycle GHG (net, w/o C&amp;S)</b>	18,083	358,667	29,921	65,506	32,957	289,870	795,004

2023	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB (net, w/o C&amp;S)</b>	\$4,259,226	\$76,586,920	\$6,605,993	\$6,967,109	\$1,589,056	\$65,643,254	\$161,651,559
<b>TSB (net, w/C&amp;S)</b>	\$4,259,226	\$76,586,920	\$408,632,244	\$6,967,109	\$1,589,056	\$65,643,254	\$563,677,810
<b>Lifecycle GHG (net, w/o C&amp;S)</b>	26,883	657,466	42,468	40,680	8,932	353,232	1,129,661

# Portfolio Measures & TSB Deep Dive

Top 5 Measures in Portfolio	Cumulative Portfolio TSB Attained from Measure (\$)	Applicable Sectors
Non-Residential Water Heaters	\$52,498,659	Com, Pub
Residential Water Heaters	\$25,943,183	Res
Home Energy Reports	\$15,694,315	Res
Low Flow Devices (Aerator, Showerhead)	\$15,193,471	Res, Com
Strategic Energy Management (SEM)	\$12,191,483	Ind, Com, Pub
Commercial Fryers	\$5,791,544	Com

Measure TSB Composition



## Open Discussion / Questions

PA Name: SoCalGas  
Contact Name: Mori Farid  
Contact Email: [mfarid@socalgas.com](mailto:mfarid@socalgas.com)

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# SDG&E

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## CAEECC 2024 Report Out

August 5, 2025



# 2024 Portfolio Key Highlights



Commercial and Residential  
Sectors continue to  
dominate portfolio



Fuel Substitution measures  
help with TSB/TRC

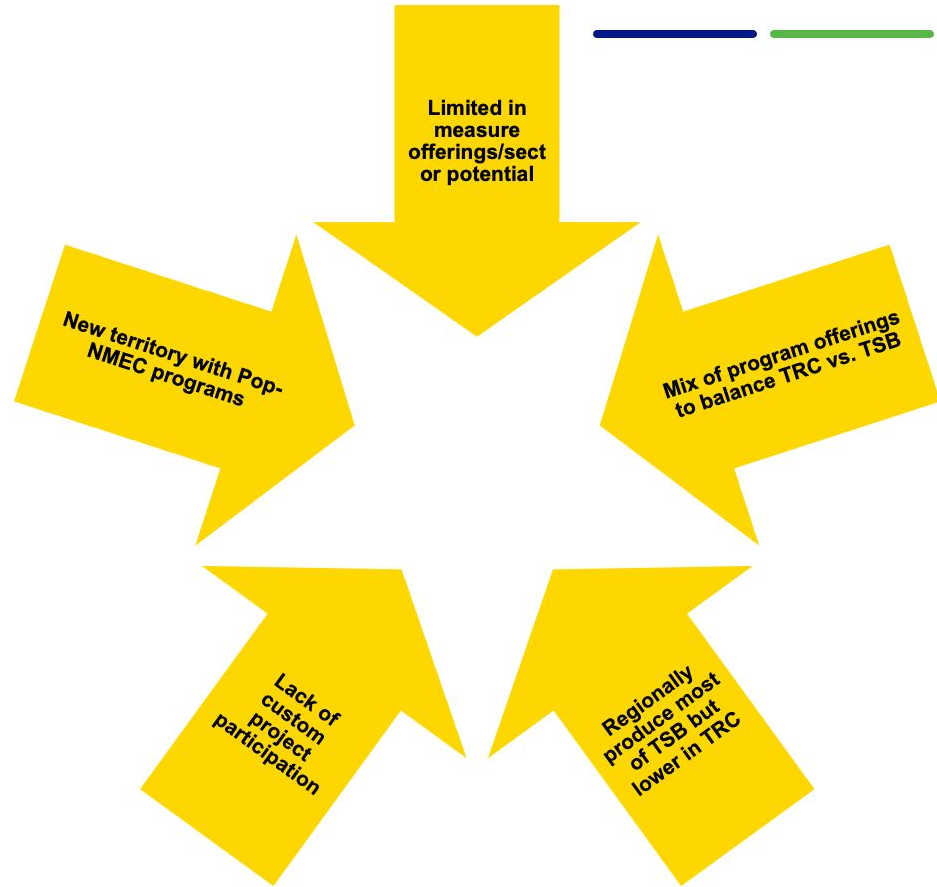


SEM, Residential Behavior,  
Insulation, and Tankless  
Water Heaters



Gains contributed by  
updates to ACC/CET  
versions

# Key Challenges



# 2024 Portfolio Key Highlights - Quantitative

	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition	\$50,410,731	\$43,964,672	0.98	1.10
Market Support	\$115,048	\$10,442,379	0.03	0.03
Equity	\$3,937	\$2,329,993	0.00	0.00
EM&V	\$0	\$2,181,400		
<b>Total (w/o C&amp;S)</b>	<b>\$50,529,716</b>	<b>\$58,918,444</b>		
Codes & Standards	\$242,923,264	\$3,236,996	1.59	75.05
<b>Total (w/ C&amp;S)</b>	<b>\$293,452,981</b>	<b>\$62,155,440</b>	<b>1.34</b>	<b>4.43</b>

# 2024 and 4-year Portfolio Key Highlights - Quantitative

Budget Composition	
2024 Equity + Market Support Composition	2024 Admin Cap (%)
18%	6.14%

2024 vs 4-year Portfolio Budget vs. Spend (%)	
2024 Budget: \$76,511,657  2024 Spend: \$62,188,462	2024 81% Spend
4-year Budget: \$305,891,188  4-year Spend: \$62,188,462	4-year 20% Spend

2024 vs 4-year TSB Goal vs. Achieved (%)	
2024 TSB Goal: <u>\$45,004,630</u>  2024 TSB Achieved: <u>\$50,529,716</u>	2024 112% TSB Achieved
4-year TSB achieved <u>\$50,529,716</u>	4-year 27% achieved

# 2024 vs 2023 Claims by Sector

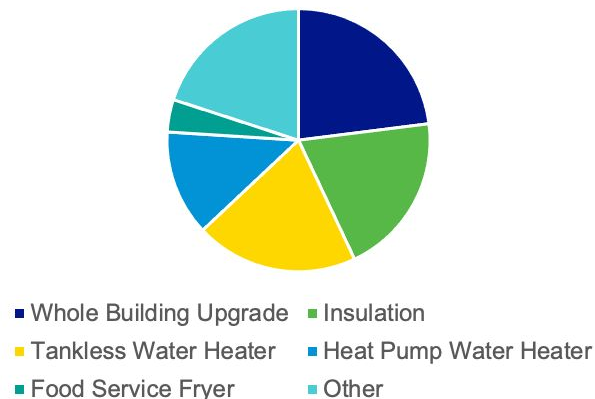
2024	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S, w/C&S)	\$674,611	\$24,521,194	\$242,923,264	\$5,309,300	\$632,040	\$19,392,569	\$293,452,978
<b>Lifecycle GHG</b> (net, w/o C&S)	2,507	108,429	N/A	17,612	3,203	61,768	193,519

2023	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S, w/C&S)	\$267,622	\$22,668,894	\$624,873,948	\$0	\$720,849	\$13,110,361	\$661,641,674
<b>Lifecycle GHG</b> (net, w/o C&S)	1,351	108,004	N/A	0	1,973	56,942	168,270

# Portfolio Measures & TSB Deep Dive

Top 5 Measures in Portfolio	Cumulative Portfolio TSB Attained from Measure (\$)	Applicable Sectors
Whole Building Upgrade	\$11,476,426	Ind/Res
Insulation	\$10,141,208	Com/Res
Tankless Water Heater	\$9,899,714	Com
Heat Pump Water Heater	\$6,796,188	Com/Res
Food Service Fryer	\$2,208,156	Com

Measure TSB Composition





**Questions?**

**Kelvin Valenzuela**  
**[kvalenzuela@sdge.com](mailto:kvalenzuela@sdge.com)**

# Questions & Input

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## **Southern CA RENS Performance Review**

*Lunch*

## **NorCal Performance Review**

*Break*

## **Key Themes**

## **Wrap Up**

# **Southern CA RENS Performance Review**

I-REN

SoCalREN

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# I-REN

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# Inland Regional Energy Network (I-REN) CAEECC 2024 Report Out

August 5, 2025

# 2024 Portfolio Key Highlights - Qualitative

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## I-REN Portfolio Highlights:

- First full year of program operations
- Overall increase in participation across I-REN's entire portfolio

## Public Sector Highlights:

- First Cash for Kilowatts project completed construction
- Performed 59 Site Visits / Energy Audits
- 50+ agencies leveraged public sector offerings

## Codes & Standards Highlights:

- Hosted the state's first REN-led, no-cost, multilingual technical training on the energy code
- Hosted 2 regional energy code forums
- 157 training attendees awarded continuing education unit certificates

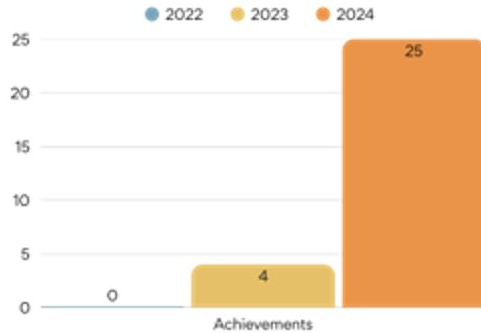
## Workforce Education & Training Highlights:

- 14 I-REN Energy Fellows placed at agencies to support energy efficiency and resiliency projects
- 147 partnerships formed in support of energy efficiency workforce development
- At the time of 2024 AR submittal, 6 host agencies were requesting Fellows for 2025
  - Update since AR submittal: now on track to exceed Mid Term Target (2024-2025) of 27 fellows placed

# I-REN Unique Value Metrics

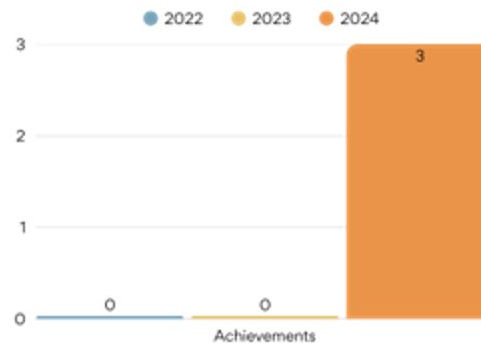
## Public Sector

Number of BUC registrations in partner jurisdictions (total users)



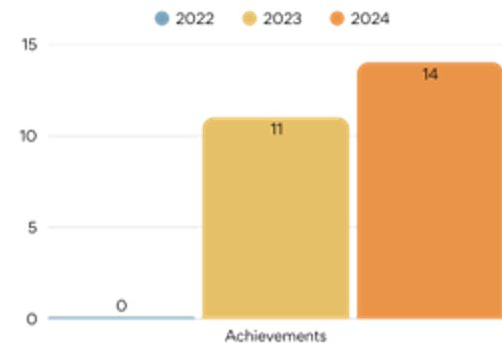
## Codes & Standards

Percentage of partner jurisdictions that use I-REN guides and tools for code compliance



## Workforce Education & Training

Number of fellows placed within partner jurisdictions



# Key Challenges

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- Building awareness of I-REN's programs in hard-to-reach communities
  - Solution: outreach campaigns, hosting events, leveraging connections
- Collecting sensitive equity-related data during event registration discouraged participation
  - Solution: streamlined registration forms and added notices to improve transparency and increase participation
- Limited capacity at Public Sector agencies to take on energy efficiency projects
  - Solution: energy fellows enter career pathway to work with jurisdictions while jurisdictions receive technical assistance and financial support
- Language accessibility in Codes & Standards training
  - Solution: offer no-cost Energy Code training in Spanish, as I-REN did in 2024
- Matching employer needs with workforce skills
  - Solution: carry out workforce market assessments and training pathways for in-demand skills

# 2024 Portfolio Key Highlights - Quantitative

	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition	N/A	N/A	N/A	N/A
Market Support	0	\$1,265,357	0	0
Equity	\$101,864	\$4,514,207	0.02	0.02
EM&V	0	0		
<b>Total (w/o C&amp;S)</b>	<b>\$101,864</b>	<b>\$5,779,564</b>	<b>0.02</b>	<b>0.02</b>
Codes & Standards	0	\$943,868	0	0
<b>Total (w/ C&amp;S)</b>	<b>\$101,864</b>	<b>\$6,723,433</b>	<b>0.01</b>	<b>0.02</b>

# 2024 and 4-year Portfolio Key Highlights - Quantitative

Budget Composition	
2024 Equity + Market Support Composition <i>(IOUs require            &lt;30% for MS&amp;E)</i>	2024 Admin Cap/Target (%)
<b><u>81%</u></b>	<b><u>10%</u></b>

2024 vs 4-year Portfolio Budget vs. Spend (%)	
2024 Budget: \$11,467,651.52  2024 Spend: \$6,687,570.02	2024: 58% Spend
6-year Budget: \$65,577,932  6-year Spend: \$12,898,405	6-year: 20% Spend

2024 vs 4-year TSB Goal vs. Achieved (%)	
2024 TSB Goal: <u>\$172,737</u>  2024 TSB Achieved: <u>\$101,863</u>	2024 <u>59%</u> TSB Achieved
6-year TSB achieved <u>\$101,863</u>	6-year <u>2%</u> achieved

# 2024 vs 2023 Claims by Sector

2024	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
TSB (net, w/o C&S, w/C&S)	0	0	0	0	<u>\$101,863</u>	0	<u>\$101,863</u>
Lifecycle GHG (net, w/o C&S)	0	0	0	0	710.80	0	710.80

2023	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
TSB (net, w/o C&S, w/C&S)	0	0	0	0	0	0	0
Lifecycle GHG (net, w/o C&S)	0	0	0	0	0	0	0

# Portfolio Measures & TSB Deep Dive

---

Top 5 Measures in Portfolio	Cumulative Portfolio TSB Attained from Measure (\$)	Applicable Sectors
Site NMEC (Lighting)	\$101,863	Public Sector



PA Name: Inland Regional Energy Network (I-REN)  
Contact Name: Benjamin Druyon  
Contact Email: [bdruyon@wrcog.us](mailto:bdruyon@wrcog.us)

# Questions & Input

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# SoCalREN

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# SoCalREN

## 2024 Portfolio Performance

August 5, 2025



# 2024 Portfolio Key Highlights

## Public Sector:

98% of 2024 public sector projects were delivered in underserved communities  
\$15 million in lifetime bill savings delivered  
\$3,167,817 in TSB delivered  
46 million kWh, 1,133 kW, 2 million therms in lifetime energy savings  
72 heat pump water heaters installed in public agency facilities

## Residential Sector:

- Impacted over 6,200 household units in 2024
- 105% of Net kWh goal
- Achieved 169% of Net therms goal
- Implemented in 359 classrooms across 116 schools and 41 districts in 7 counties.
- Impacted over 8,561 student across Southern California
- Achieved nearly 70% DAC participation

## Cross Cutting – WE&T:

- 271 Unique Enrollment in ACES (181% of Goal)~w/ 35% Female enrollment
- 42 Internships w/ \$90K earned wages from external sources
- Unique participants 146 in E-Contractor Academy (127% of Goal)
- 14 Training Workshops held for ECA
- Earned 6 Employer commitments for GPC

### SoCalIREN Financing Program\*

- 7 PA Projects Funded
- \$3.8M Disbursed/Replenished

# Unique Value Metrics (UVM)

## Key SoCalREN 2024 Achievements

Sector	Metric	2024 Achievement
Portfolio–Wide	Net kWh	3,852,137
Portfolio-Wide	Net Therms	964,937
Public	Completed Projects	111
Public	Estimated gross annual bills savings (\$)	\$2,290,962
Residential	Total DAC project costs	\$3,503,846
Residential	Total Rural/HTR project costs	\$3,540,058
WE&T	Student Internships	32
WE&T	Opportunity youth career plans	14

# Key Challenges

- **All segments** facing higher-cost challenges for heat pump implementation and related electrical upgrades.
- **Market segments such as the Residential sector seeking more comprehensive DER packages that offer energy affordability resiliency**
- **Rural markets burdened with no** pathway to fuel switching.
- **Diminishing CPUC Policy on electrification upgrades** for multiple sectors which has run counter to the demand/need by market segments\*
- **Retroactive Measure package updates** with retroactive implementation.
- **Rigorous and transparent public solicitation** processes that caused longer market lead times for market launch

# 2024 Portfolio Key Highlights - Quantitative

Segment	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition	\$9,265,703	\$13,308,250	0.57	0.77
Market Support	\$171,300	\$11,645,994	0.01	0.01
Equity	\$0	\$3,030,361	0.00	0.00
EM&V	N/A	\$323,864		
<b>Total (w/o C&amp;S)</b>	<b>\$9,437,003</b>	<b>\$28,349,411</b>	<b>0.34</b>	<b>0.40</b>
Codes & Standards	N/A	N/A	N/A	N/A
<b>Total (w/ C&amp;S)</b>	<b>\$9,437,003</b>	<b>\$28,349,411</b>	<b>0.34</b>	<b>0.40</b>

# 2024 and 4-year Portfolio Key Highlights - Quantitative

## Budget Composition

2024 Equity +  
Market  
Support  
Composition

2024 Admin  
Cap (%)

(IOUs require  
<30% for MS&E)

**52%**

**20%**

## 2024 vs 4-year Portfolio Budget vs. Spend (%)

2024 Budget:  
\$41,852,609

2024 Spend:  
\$28,349,411

2024: 68% Spend

4-year Budget:  
\$221,040,769

2024 Spend:  
\$28,349,411

4-year:  
13% Spend

## 2024 vs 4-year TSB Goal vs. Achieved (%)

2024 TSB Goal:  
9.5 M

2024 TSB  
Achieved: 9.4 M

2024:  
99% TSB  
Achieved

4-year TSB  
Goal: 51.8 M

4-year TSB  
Achieved: 9.4 M

4-year:  
18% TSB  
Achieved

# 2024 vs 2023 Claims by Sector

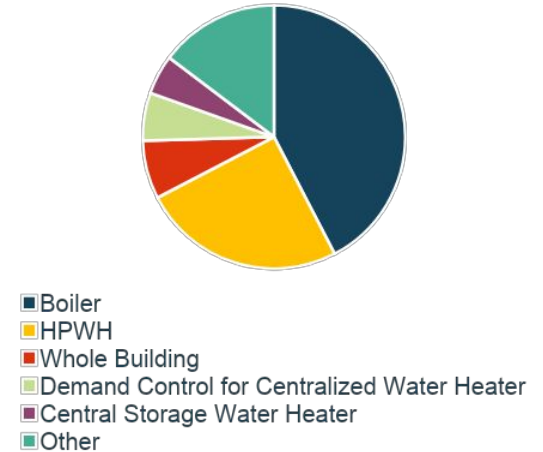
2024	Agricultural	Commercial	Cross-Cuttingting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S, w/C&S)	0	0	0	0	\$3,235,943	\$6,201,058	<b>\$9,437,002</b>
<b>Lifecycle GHG</b> (net, w/o C&S)	0	0	0	0	14,312	26,201	40,513

2023	Agricultural	Commercial	Cross-Cuttingting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S, w/C&S)	0	0	0	0	\$487,105	\$8,692,568	<b>\$9,179,673</b>
<b>Lifecycle GHG</b> (net, w/o C&S)	0	0	0	0	4,962	25,087	\$30,050

# Portfolio Measure & TSB Deep Dive

Top 5 Measures in Portfolio	Cumulative Portfolio TSB Attained from Measure (\$)	Applicable Sectors
NG Boiler	\$3,997,469	Multifamily
Heat Pump Water Heater	\$2,360,288	Multifamily, Public
Whole Building NMEC	\$676,384	Public
Demand Control for Centralized Water Heater	\$556,418	Multifamily
NG Central Storage Water Heater	\$458,892	Multifamily

Measure TSB Composition



# Open Discussion / Questions

**PA Name:** Southern California Regional Energy Network (SoCalIREN)

**Contact Name:** Lujana Medina

**Contact Email:** LMedina@isd.lacounty.gov

**Thank You**

# Questions & Input

*First from CAEECC Members  
then from the Public*

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# **Regional Q&A:** *Central California*

# LUNCH

## (35 mins)

*Here's a look at what's next on our agenda!*



*Break*

**NorCal Performance Review**

**Key Themes**

**Wrap Up**

## NorCal Performance Review

Key Themes

Wrap Up

# NorCal Performance Review

PG&E

MCE

BayREN

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# PG&E

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## 2024 Portfolio Key Highlights - Qualitative

- WE&T reached over 17K attendees with ~500 instructor-led and web-based trainings and the Tool Lending Library supported over 250 EE projects with +4K no-cost tool loans.
- Supported building electrification by installing 2,979 heat pumps (water and space heating) through the NetOne, Government and SW K-12 Comprehensive New Construction (Res & Non-Res) Programs while also launching 3 new pilots, EmPower My Home, Powerful Neighborhoods and Electrify My Block, focused on accelerating building electrification within disadvantaged and low-income communities.
- Expanded Strategic Energy Management (SEM) into Commercial, Institutional and Public segments. Focused on long term energy efficiency savings, operational changes, and Integrated Demand Side Management (IDSMD) opportunities. With the first cohort launching by the end of August.

# Key Challenges

## Program Consolidation:

The **Business Energy Performance** program will ramp down throughout 2026. New projects within petroleum, chemical and mineral segments will be served by the **Industrial Systems Optimization** (ISOP) program and **Strategic Energy Management** (SEM) programs.

The **Cool Save Grocery** program will ramp down throughout 2025. New projects within the grocer segment will be served by the **NetOne Commerical Efficiency** program.

The **Smart Labs** program will ramp down throughout 2026. New projects within the Laboratory segment will be served by the **Advanced Energy Program for High Tech & Biotech**.

## 2024 Portfolio Key Highlights - Quantitative

	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition	\$309,048,311	\$127,744,669	1.90	2.23
Market Support	(\$7,316,909)	\$27,498,088	(0.16)	(0.31)
Equity	\$14,820	\$8,956,318	0.00	(0.00)
EM&V	\$0	\$5,612,430		
<b>Total (w/o C&amp;S)</b>	<b>\$301,746,222</b>	<b>\$169,811,505</b>	<b>1.40</b>	<b>1.73</b>
Codes & Standards	\$1,321,642,538	\$35,426,182	1.55	35.65
<b>Total (w/ C&amp;S)</b>	<b>\$1,623,388,760</b>	<b>\$205,237,687</b>	<b>1.52</b>	<b>7.48</b>

Note – These numbers are sourced directly from PG&E's annual report excel appendix, sheet T-4 Segment Summary.

# 2024 and 4-year Portfolio Key Highlights - Quantitative

Budget Composition		2024 vs 4-year Portfolio Budget vs. Spend (%)		2024 vs 4-year TSB Goal vs. Achieved (%)	
2024 Equity + Market Support Composition <i>(IOUs require &lt;30% for MS&amp;E)</i>	2024 Admin Cap (%)	2024 Budget: <u>\$214,643,059</u>  2024 Spend: <u>\$205,237,687</u>	2024 <u>96%</u> Spend	2024 TSB Goal: <u>\$212M</u>  2024 TSB Achieved: <u>\$312M</u>	2024 <u>147%</u> TSB Achieved
24%	<u>1.16%*</u>	4-year Budget: <u>\$900,007,518</u>  4-year Spend: <u>\$205,237,687</u>	4-year <u>23%</u> Spend	4-year TSB Goal: <u>\$853M</u>  4-year TSB achieved <u>\$312M</u>	4-year <u>37%</u> achieved

\*Caps & Targets are taken on a 4-year basis. PG&E spent \$10.9M toward the admin cap in 2024.

## 2024 vs 2023 Claims by Sector

2024	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S)	\$23,605,029	\$65,092,170	(\$7,955,060)	\$159,162,166	\$13,063,172	\$48,778,743	\$301,746,222
<b>TSB</b> (net, w/C&S)	\$23,605,029	\$65,092,170	\$1,313,687,477	\$159,162,166	\$13,063,172	\$48,778,743	\$1,623,388,760
<b>Lifecycle GHG</b> (net, w/o C&S) Metric Tons	91,646	302,461	(31,881)	617,133	48,986	170,218	1,198,563

2023	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S)	\$9,257,841	\$66,475,215	\$701,019	\$43,141,168	\$2,234,872	\$39,012,046	\$160,822,163
<b>TSB</b> (net, w/C&S)	\$9,257,841	\$66,475,215	\$2,031,541,352	\$43,141,168	\$2,234,872	\$39,012,046	\$2,191,662,496
<b>Lifecycle GHG</b> (net, w/o C&S) Metric Tons	42,769	386,485	1,610	170,052	16,375	133,113	750,404

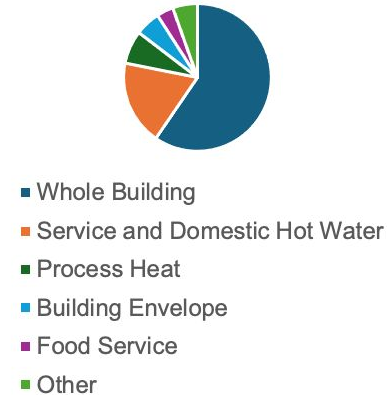
# Portfolio Measures & TSB Deep Dive

## Instructions:

- The purpose of this slide is to identify the top 5 measures in the portfolio and quantify how much those measures contributed to the TSB that the portfolio achieved.
- These can be the top 5 measures in the portfolio (including deemed, MAP, site NMEC, custom, and other program types) - beyond deemed.
- “Other” would represent the TSB sum of all other measures that are not in the top 5.

Top 5 Measures in Portfolio (Use Category)	Cumulative Portfolio TSB Attained from Measure (\$)	Applicable Sectors
Whole Building	\$179,682,517	All Note - Ind-SEM 76%
Service and Domestic Hot Water	\$56,065,586	Commercial, Industrial, Public, Residential
Process Heat	\$21,960,224	Agricultural, Commercial, Industrial, Public
Building Envelope	\$16,596,814	Agricultural
Food Service	\$11,094,983	Commercial
Other	\$16,346,098	All

Measure TSB Composition



# Open Discussion / Questions

*Instructions: This slide is a placeholder for stakeholder questions. This slide should also include contact information for the Portfolio Administrator (PA) if stakeholders are interested in contacting the PA separately to ask questions or connect.*

PA Name: PG&E  
Contact Name: Lisa Hunter  
Contact Email: [lisa.hunter@pge.com](mailto:lisa.hunter@pge.com)

# Questions & Input

*First from CAEECC Members  
then from the Public*

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# MCE

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# MCE 2024 Annual Portfolio Performance Report Review

California Energy Efficiency Coordinating Committee

August 5, 2025

# 2024 Key Highlights - Qualitative

- ✓ In October 2024, MCE launched Small Business Energy Advantage, a commercial equity program. In just a few months, the program enrolled 47 businesses in the program. The program also raised awareness of the MCE Cares program, which offers small businesses a \$25/month bill credit, enrolling 178 small businesses.
- ✓ The Multifamily Energy Savings Program's leveraging strategy enabled properties receiving CPUC Energy Efficiency (EE) program incentives of \$467,944 to access over \$2.1M in non-CPUC EE funding.

	MFES Program	LIFT Program	MCE Programs	External Programs / LIWP	TOTAL
Total 2024 Incentives	\$467,944	\$805,056	\$191,910	\$1,055,034	\$2,519,944

- ✓ The Home Energy Savings Program doubled the number of electrification measures from previous years, installing 130 electrification measures in 110 homes out of 373 total homes treated through the program.
- ✓ The SEM program increased the performance incentive for the first time in 5 years, leading to more momentum at project sites. The program also enrolled 4 new customers, further serving our public and commercial sectors.

# 2024 Key Challenges

- ✓ MCE issues a solicitation for the Flex Market Programs in early 2024. Implementer turnover led to a slower year for the Flex Market Program.
- ✓ Flex Market Programs also had to adjust to the lifting of the Market Access Rules, which required measure costs to be accounted for in program cost effectiveness.
- ✓ Long project lead times continue to be a challenge in the multifamily sector with projects spanning multiple program years.
- ✓ Finding sufficient flexibility within the SEM program to meet the needs of a more diverse group of participating customers.

# 2024 Key Highlights - Quantitative

	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition	\$2,488,664	\$5,329,717	0.35	0.47
Market Support	\$0	\$965,263	0.00	0.00
Equity	\$793,573	\$4,272,503	0.20	0.21
EM&V	\$0	\$204,138		
Total (w/o C&S)	\$3,282,237	\$10,771,622	0.26	0.31
Codes & Standards	N/A	N/A	N/A	N/A
Total (w/ C&S)	\$3,282,237	\$10,771,622	0.26	0.31

# 2024 and 4-Year Highlights

Budget Composition	
2024 Equity + Market Support Composition (IOUs require <30% for MS&E)	2024 Admin Cap (%)
30%	10%

2024 vs 4-year Portfolio Budget vs. Spend (%)	
<b>2024 Budget:</b> \$19,648,951  <b>2024 Spend:</b> \$10,771,622	<b>2024:</b> 55% Spend
<b>4-year Budget:</b> \$76,670,991  <b>4-year Spend:</b> \$10,771,622	<b>4-year:</b> 14% Spend

2024 vs 4-year TSB Goal vs. Achieved (%)	
<b>2024 TSB Goal:</b> \$23,601,101  <b>2024 TSB Achieved:</b> \$3,282,237	<b>2024:</b> 14% TSB Achieved
<b>4-year TSB:</b> \$95,345,418  <b>4-year TSB achieved:</b> \$3,282,237	<b>4-year:</b> 3% achieved

# 2024 vs 2023 Claims by Sector

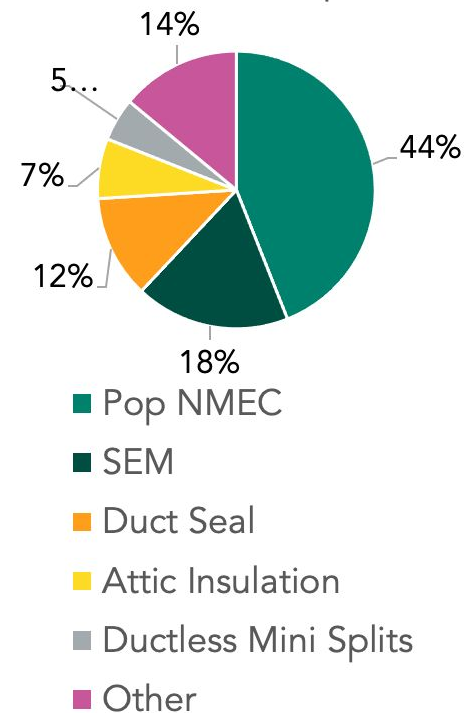
2024	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S, w/C&S)	\$-	\$2,042,607	\$-	\$252,334	N/A	\$987,296	\$3,282,237
<b>Lifecycle GHG</b> (net, w/o C&S)	-	10,005	-	979	N/A	4,106	15,090

2023	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S, w/C&S)	\$58,014	\$5,442,744	\$-	\$662,748	N/A	\$462,846	\$6,626,352
<b>Lifecycle GHG</b> (net, w/o C&S)	361	20,712	\$-	3,624	N/A	2,378	27,075

# Portfolio Measures & TSB Deep Dive

Top 5 Measures in Portfolio	Cumulative Portfolio TSB Attained from Measure (\$)	Applicable Sectors
Pop-NMEC	\$1,448,336	Commercial
SEM	\$599,300	Residential/Commercial/Industrial
Duct Seal	\$400,807	Residential
Attic Insulation	\$238,656	Residential
Ductless Mini Splits	\$143,554	Residential

Measure TSB Composition





# Open Discussion/ Questions



**Alice Havenar-Daughton**

**[Ahavenar-Daughton@mcecleanenergy.org](mailto:Ahavenar-Daughton@mcecleanenergy.org)**

# Thank you!



[mceCleanEnergy.org](http://mceCleanEnergy.org)  
[info@mceCleanEnergy.org](mailto:info@mceCleanEnergy.org)

# Questions & Input

*First from CAEECC Members  
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# BayREN

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Local Governments Empowering Our Communities

# 2024 Annual Portfolio Performance Report Review

August 5, 2025

# 2024 Portfolio Key Highlights - Qualitative

- **The BayREN Business redesign attracted key partnerships with local organizations** such as Hispanic Chamber of Commerce in Solano County. Ultimately, the program completed 218 Hard-to-reach projects, 74 in disadvantaged communities.
- **The Single Family program redesign process engaged over 40 community-based organizations across all nine counties** and over 70 partner organizations, including CCAs, contractors, and energy implementers.
- **The advice letter to launch the Home Energy Score California program was filed and approved**, making BayREN the first non-IOU to run a statewide program.

# Unique Value Metrics

## Codes & Standards

- 79% C&S Forum Attendees expanded their network
- 61 jurisdictions using BayREN guides and tools for code compliance
- 539 participants in energy code trainings
- 98% attendees increased code compliance knowledge

## Climate Careers

- 2,001 Green House Calls (GHC)
- 80% GHC's in equity-targeted households

## Green Labeling

- 71 realtors and 7 appraisers green certified
- 4,855 households receiving a Home Energy Score

# Key Challenges

- Low utility and customer uptake and participation of BayREN's tariff on-bill financing water program despite successful pilot and turnkey program design.
- Our portfolio included four new programs and a redesign of single family, therefore limiting our results and outcomes.
- Multifamily pipeline was strong and projects took longer than expected to complete, therefore carrying over into 2025. Results will be reflected in next year's report.

# 2024 Portfolio Key Highlights - Quantitative

	2024 Total System Benefit (\$)	2024 Total Expenditures (\$)	Segment Cost Effectiveness (TRC)	Segment Cost Effectiveness (PAC)
Resource Acquisition	\$1,473,580	\$4,133,378	0.36	.037
Market Support	\$0	\$5,013,192	0.00	0.00
Equity	\$3,452,542	\$15,002,197	0.20	0.31
EM&V	\$0	\$343,647		
<b>Total (w/o C&amp;S)</b>	<b>\$4,926,122</b>	<b>\$24,492,416</b>	<b>0.19</b>	<b>0.26</b>
Codes & Standards	\$0	\$1,842,490	0.00	0.00
<b>Total (w/ C&amp;S)</b>	<b>\$4,926,122</b>	<b>\$26,334,907</b>	<b>0.18</b>	<b>0.24</b>

# 2024 and 4-year Portfolio Key Highlights - Quantitative

## Budget Composition

- **2024 Equity + Market Support Composition:** 81%
- **2024 Admin Cap:** 8%

## 2024 vs 4-year Portfolio Budget vs. Spend (%)

- **2024 Budget:** \$38,242,769
- **2024 Spend:** \$26,334,907
- **2024 Spend:** 69%
- **4-year Budget:** \$162,172,637\*
- **4-year Spend:** \$26,334,907
- **4-year Spend:** 16%

## 2024 vs. 4-year TSB Goal vs. Achieved (%)

- **2024 TSB Goal:** \$5,260,927
- **2024 TSB Achieved:** \$4,926,122
- **2024 TSB Achieved:** 94%
- **4-year TSB Goal:** \$23,971,884
- **4-year TSB Achieved:** \$4,926,122
- **4-Year TSB Achieved:** 21%

\* 4-year Budget does not include the statewide Home Energy Score California program budget

# 2024 vs 2023 Claims by Sector

2024	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S, w/C&S)	\$0	\$1,473,580	\$122,501	\$0	\$0	\$3,330,040	\$4,926,122
<b>Lifecycle GHG</b> (net, w/o C&S)	0	7,418	454	0	0	13,348	21,220

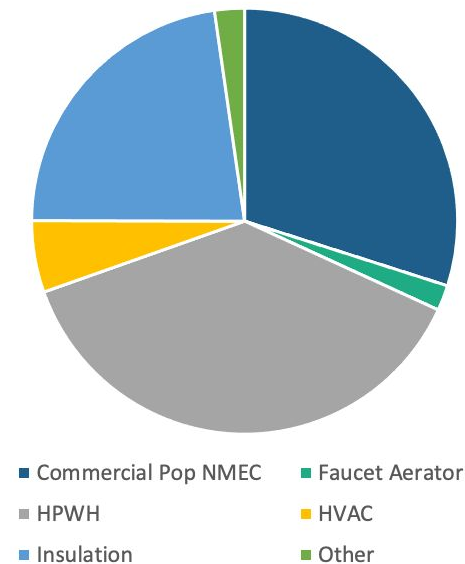
  

2023	Agricultural	Commercial	Cross-Cutting	Industrial	Public	Residential	Total
<b>TSB</b> (net, w/o C&S, w/C&S)	\$0	\$1,094,603	\$0	\$0	\$0	\$4,214,652	\$5,309,255
<b>Lifecycle GHG</b> (net, w/o C&S)	0	3,869	0	0	0	37,139	41,008

# Portfolio Measures & TSB Deep Dive

Top 5 Measures in Portfolio	Cumulative Portfolio TSB Attained from Measure (\$)	Applicable Sectors
Heat Pump Water Heater	\$1,859,863	Residential (Single Family, Multifamily)
Commercial Population NMEC	\$1,473,580	Commercial
Ceiling & Wall Insulation	\$1,117,576	Residential (Single Family, Multifamily)
HVAC	\$268,212	Residential (Single Family, Multifamily)
Faucet Aerator	\$95,063	WE&T, Multifamily

Measure TSB Composition





# Thank You!

Jane Elias  
[jelias@bayareametro.gov](mailto:jelias@bayareametro.gov)

**BAYREN**

# Questions & Input

*First from CAEECC Members  
then from the Public*

To access Slido:

- A. Use your smartphone and scan the QR code
- B. Visit [slido.com](https://slido.com) and enter code # **Code Here**


QR CODE  
to come

# **Regional Q&A:** *Central California*

# BREAK

## (10 mins)

*Here's a look at what's next on our agenda!*



**Key Themes**

**Wrap Up**

**Key Themes**

**Wrap Up**

# Key Themes

Open Discussion

Summary of Key Themes

# Open Discussion



# Summary of Key Themes

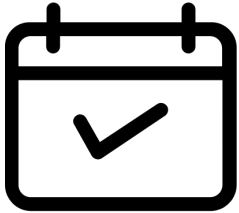
- [To be filled out live during meeting]

## Wrap Up

# Wrap Up

Next Steps

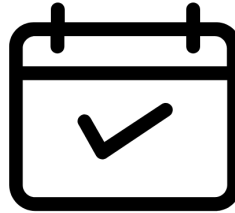
## Next Steps: Meeting Notes



8/13 - noon 8/18

**PAs review meeting notes**

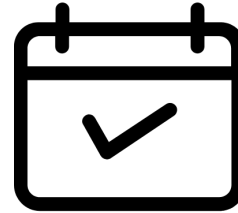
PAs will be asked to respond to unanswered Questions & Input submitted via Slido and the Meeting Summary



8/19 - 8/25

**Draft summary posted on CAEECC website**

Draft summary is open to suggested changes



8/26

**Final meeting summary posted**



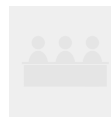
January 2025

CAEECC Member-only  
Phase 3 DEI Training  
Plan

Q1

February 11, 2025

Full CAEECC Quarterly  
Meeting #45



April 9, 2025

Panel on Community  
Engagement

Q2

May 8, 2025

Full CAEECC  
Quarterly Meeting  
*SF + Virtual*



August 5th, 2025

*Annual 2024 Portfolio  
Performance Report  
Review  
Virtual*

Q3

**August 13, 2025**

Full CAEECC  
Quarterly Meeting  
*Fully virtual*  
PAs to present 2024  
Equity Highlights



**November 6, 2025**

*Semi Annual 2025  
Portfolio Performance  
Report Review  
Virtual*

Q4

**December 9, 2025**

Full CAEECC  
Quarterly Meeting  
*SoCal (location tbd) +  
SF (tbd) + virtual*

# 2025 Meeting Dates