



December 31, 2024

**Advice Letter No. 1-E/1-G**

(Central California Rural Regional Energy Network ID U-4002)

California Public Utilities Commission  
Energy Division Tariff Unit  
505 Van Ness Avenue, 4<sup>th</sup> Floor  
San Francisco, CA 94102-3298

**RE: Central California Rural Regional Energy Network (CCR REN) Business Plan**

**Purpose**

Pursuant to Ordering Paragraph (OP) 9 of Decision (D.) 24-09-031, issued on October 2, 2024, CCR REN respectfully submits this Tier 3 Advice Letter (AL) with the CCR REN Business Plan attached, detailing the changes and modifications from the original Rural Regional Energy Network (Rural REN) Business Plan and Portfolio Application, updating program offerings, goals, forecasts, and budgets for the period 2024 through 2027. This AL is timely filed in compliance with D.24-09-031, OP 9, which directs CCR REN to submit this AL no later than December 31, 2024.

**Background**

On March 4, 2022, Redwood Coast Energy Authority (RCEA) filed a motion in Rulemaking (R.) 13-11-005 requesting approval of a new Rural Regional Energy Network (Rural REN). On March 17, 2022, a ruling of the Chief Administrative Law Judge (ALJ) transferred the RCEA motion from R.13-11-005 to the newly consolidated Application (A.) 22-02-005, *et. al.* D.23-06-055, issued July 3, 2023, approved the energy efficiency portfolios for all portfolio administrators for program years 2024-2027. Additionally, the decision approved the new regional energy network, Rural REN, together with a program portfolio and associated budget. Thereafter, several parties internal and external to the Rural REN filed a series of Petitions for Modifications (PFMs) regarding the portfolio administrator, REN territory, and associated issues. The Commission resolved these PFMs in D.24-09-031, directing that the original Rural REN be split in two, serving different geographic territories.<sup>1</sup> While the Commission did not direct any program portfolio changes to the Business Plan approved in D.23-06-055, the approved budget was split between the two new RENs, resulting in a total authorization of \$36.3 million in 2024-2027 for CCR REN. The County of San Luis Obispo was named the lead portfolio administrator for CCR REN. D.24-09-031 requires the CCR REN to file this Tier 3 Advice Letter updating its business and portfolio plans, program offerings, goals, and forecasts for the period 2024 through 2027, in accordance with the revised budget authorization.

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<sup>1</sup> The two new RENs approved in D.24-09-031 are Northern California Rural REN which serves the North Coast and Northern Sierra regions, and the Central California Rural REN which serves the Central Coast, Eastern Sierra, and San Joaquin Valley regions.

CCR REN is comprised of local government and non-profit organizations that provide energy efficiency programs to three regions of California: the Central Coast, the Eastern Sierra, and the San Joaquin Valley. The combined CCR REN service territory has a population of 5.4 million people, representing approximately 14% of California's total population that covers approximately 50,000 square miles and serves 14 counties. The Central California Rural Regional Energy Network will support an equitable and affordable clean energy transition for underserved communities. By leveraging regional collaboration, trusted local relationships, and promoting pragmatic responses to community needs, the Central California Rural Regional Energy Network will support communities that have historically not participated in energy efficiency programs. CCR REN's goals include ensuring energy efficiency services reach customers that are underserved, notably hard-to-reach areas within Disadvantaged Communities, to develop a local workforce, and to create family-sustaining clean jobs.

## **Discussion**

### **A. Portfolio Overview - Revisions to Business Plan and Portfolio Application**

D.24-09-031 did not direct any changes to the original Rural REN business plan other than updated goals, forecast, and program plans. The business plan was updated to incorporate the changes to the CCR REN members, the geography, demographics, goals, forecast, program plans, and the budget, as provided in D.24-09-031. Key changes are summarized as follows:

- The vision for CCR REN was updated
- The Governance structure was updated to reflect the change in program administrator as well as minor nomenclature changes, to align with the Central California Rural REN Memorandum of Understanding executed by all partners on October 11, 2024
- Updated geography and corresponding demographics as well as programs serving each region; figures, tables, and photos have been updated accordingly
- The program years have been changed from 2023-2027, to 2024-2027
- The budget has been changed throughout the narrative and tables, consistent with what was approved in D.24-09-031; budget and savings estimates for 2028-2031 were removed
- The Residential Resource Acquisition program is not being offered by CCR REN; therefore, the related narrative has been removed
- The REN names in Exhibit 1, Table 2 have been updated to show CCR REN, Rural REN – North, and SDREN
- The CCR REN Procurement Policy was added
- Corrected the placement of Codes and Standards in the narrative in the Codes and Standards segment instead of the Market Support segment; note that this program was already correctly designated in the original tables
- A number of minor edits were made to correct typographical errors and outdated references found in the original Rural REN Business Plan
- Exhibit 3, Appendix E was updated to provide revised Figure and Table numbers, and credit for photographs used

## B. CCR REN Programs by Sector

### Public Sector

The CCR REN Public Equity Program is designed to provide support to hard-to-reach, disadvantaged, and underserved public agencies in the counties of Monterey, San Benito, and Santa Cruz to help them access, understand, and address energy efficiency opportunities. The program builds on CCR REN Partner Organizations' existing relationships, data, and experience bringing energy savings to public sector customers.

The primary barriers faced by hard-to-reach public agencies when considering energy efficiency opportunities in their facilities are lack of funding, staff capacity, and understanding of available resources. The CCR REN Public Equity Program will address these barriers, acknowledging that the needs and interest of each public facility will vary, to ensure equitable access to resources. The objectives of the program are to increase energy savings, drive public agency participation in other energy efficiency resource acquisition and financing programs (i.e. existing investor-owned utility (IOU) programs such as local government partnerships and the GK12 program), and help secure competitive state and federal grants.

For hard-to-reach public agencies, providing support at every step of the process is critical since they are faced with cascading challenges that often need immediate response, such as pandemic events, climate change induced disasters, and earthquakes. Providing agencies with the resources they need to improve their facilities through energy efficiency, demand response, and electrification is crucial for agencies to succeed in their mission of serving their communities.

A focus of the program will be strengthening the Partner Organization's relationships with public agency staff and elected officials. By gaining trust, public agencies will be more willing to consider and later implement energy efficiency opportunities. This in turn will help facilitate more comprehensive public agency energy efficiency, demand response, and electrification projects, resulting in deeper energy and cost savings. Reporting successes to both senior staff and elected officials will also lead to knowledge transfer among public agencies and help create a policymaker-level understanding that energy efficiency can deliver deep value and savings not only to agency facilities, but also to the community at large.

### Codes and Standards Sector

The CCR REN's Codes and Standards program supports code enforcement agencies and better equips the building design and construction community to implement California's ambitious Building Energy Efficiency Standards (Title 24), helping make buildings more efficient, paving the way for zero net energy building stock, and reducing energy use and greenhouse gas emissions in some of rural California's most climate-challenged regions. This will be accomplished through a broad range of educational trainings, field code support and technical assistance and ancillary offerings such as coordinated efforts regionally to engage in code cycle updates.

CCR REN will complement these resources with materials that address the regional characteristics of each area. The Codes & Standards program page on the CCR REN website will be home to relevant resources of value to local governments and building professionals, including case studies relevant to various rural regions, based on local characteristics such as climate zones, and will include pertinent information for local building officials and those who support code compliance and permit processing. Resources housed on the program page of the website will include other relevant information including fire recovery updates, local standards that adhere to Title 24 updates and zero net energy (ZNE) and ZNE-Ready buildings. As the program rolls out, there will be an emphasis on developing and translating program resources and materials to Spanish.

CCR REN will utilize materials that have already been developed by other Portfolio Administrators to ensure the efficient use of ratepayer funds, minimizing duplication and leveraging tactics that have proven successful.

### Finance Sector

CCR REN's cross-cutting Finance program will equitably support the residential, small/medium business (commercial) and public sectors in the CCR REN communities through low/no cost loans that will encourage and accelerate the implementation of energy efficiency projects. Loan products will address first cost and access to capital barriers that exist in rural California and will span gaps in current IOU and other statewide offerings. The program will offer bridge loans to complement and improve the effectiveness of IOU On-Bill Financing. Micro loans will fill a niche in the realm of currently available financing products for loans for energy efficiency upgrades below current minimum loan amounts, with easy qualifying and flexible repayment terms.

Bridge loans will provide CCR REN customers a means of covering the cost of energy upgrade projects before other funding is received (which may include On Bill Financing (OBF), incentives/rebates, or other external loans, grants, or financing programs). In the case of OBF, bridge loans will bridge the time gap between time of approval for an IOU's OBF and the disbursement of OBF funds upon verification of the project installation by the OBF program. This gap, which can be months or in some cases a year or more, can be a significant financial hardship for cash strapped rural customers. Micro loans will allow customers to implement energy efficiency and decarbonization measures with no out of pocket cost.

Detailed design and implementation of the finance program will be outsourced to a third-party expert in energy finance and details of the program will be included in the Implementation Plan.

The Finance program is anticipated to begin ramping up in 2026 and be fully operational in 2027.

### Commercial Sector

The CCR REN commercial program offering will help foster and grow a market for energy efficiency and electrification services for commercial customers, with a focus on serving those that are located in disadvantaged or underserved communities, are hard-to reach, and/or are struggling to afford energy costs. The program offerings will be tailored to the customer and will include a combination of resource

and equity measures provided at no cost to customers in hard-to-reach markets. To maintain cost effectiveness while supporting energy affordability for customers, CCR REN will deploy an innovative program that focuses on creating transformative outcomes for customers such as small businesses that otherwise would not be able to consider electrifying or retrofitting their equipment.

The CCR REN commercial program will leverage Partner Organization relationships with local Community Based Organizations (CBOs) for direct outreach to potential customers. The primary marketing approach will be through the Partner Organizations, in collaboration with CBOs and supplemented with more traditional tactics, resulting in future referrals within local communities and creating a sustainable channel for ongoing customer acquisition. Sharing and showcasing the positive outcomes from program participants is a key strategy to drive both program interest, and more broadly, an interest in energy efficient technologies and electrification pathways. This will lead to optimal outcomes for commercial customers located in the Eastern Sierra, Monterey Bay, and San Joaquin Valley regions of the Central California Rural REN.

In alignment with CCR REN's mission of increasing new employment opportunities that benefit future generations and assist in building community wealth for hard-to-reach/rural communities, CCR REN Partner Organizations will work with the program consultant to recruit and train 12 Clean Energy Advisors by integrating a hands-on learning Clean Energy Academy into this program. The Clean Energy Academy consists of a repertoire of over 50 successfully designed and delivered workforce development and contractor training courses that will be tailored into a specific CCR REN curriculum. The clean energy academy curriculum, and the hands-on experience, will give the 12 Clean Energy Advisors the skills they need to enter the energy efficiency and electrification industry in the communities where they live.

#### Workforce, Education and Training Sector

The CCR REN Workforce, Education and Training (WE&T) program accelerates training (upskilling of existing workers and training for new workers) and increases employment opportunities. Seeking to address equity issues, access to, and awareness of energy-related careers, the CCR REN WE&T offering presents pathways to diffuse program benefits more equitably for hard-to-reach Californians. Program pathways are targeted broadly for disadvantaged workers, but specifically target returning citizens, veterans, opportunity youth, women, communities of color, and displaced agricultural workers.

The program addresses skills training, trades' advancement, and pre-apprenticeship placement and supports building professionals while coordinating with third-party program implementers and local employers to increase opportunities. It will support training for and employment of Energy Advisers to deliver parts of CCR REN Residential Equity and Commercial programs and upskill trades in the regions.

The program will offer customized versions of in-person and virtual training curricula to best serve the populations in each specific region. Individuals are enrolled into the program pathway best suited for them, and training is delivered directly and/or in coordination with the CCR REN's community partners, ensuring the development of a well-trained and knowledgeable workforce that reflects their community's needs.

This program will create placement opportunities for program graduates in other CCR REN programs, and both the Clean Energy Academy and Climate Careers will offer pathways to employment in energy efficiency programs and the trades.

### Residential Sector

The Residential Equity program connects rural residential communities to energy efficiency opportunities through targeted outreach, education, and technical assistance focusing on equity-targeted hard-to-reach, disadvantaged, and low-income customer groups, including agriculture, hospitality, healthcare workers, and retirees who often face very high energy burdens in rural areas. The program aids rural and hard-to-reach communities in better understanding the concepts of energy conservation, energy efficiency, and demand response; connects customers to the opportunities for energy savings that might exist in their homes; and guides customers to other CCR REN programs as well as external programs and resources to support the implementation of energy projects.

The Residential Equity program will conduct in-home energy audits by Climate Careers Energy Advisors; install no-cost measures by Climate Careers Energy Advisors and offer energy efficiency kits with no-cost energy efficiency measures for self-installation by residents. Additionally, program participants will be provided with an energy report that maps out actionable steps to deploy energy efficiency measures, suggest behavior changes and connect customers with other supporting programs, incentives, and financing offered by IOUs, third parties, and RENs in the shared territory. A small, innovative virtual home audit platform that provides customized recommendations and models the impact of zero net energy/zero net carbon strategies will be tested in a limited area of the Central Coast region.

### Implementation Plans (IPs)

CCR REN is in the process of contracting with program implementers and will file its IPs after approval of this AL.

#### C. Summary of Forecasted Portfolio Impacts

In its initial four-year portfolio, the CCR REN will use the deemed methodology for savings forecasting and quantification. This is appropriate given the equity-focused small business incentive strategy of its Resource Acquisition program, and the limited past participation in energy efficiency programs within this customer sector in rural regions. Over time, the CCR REN will explore the feasibility of using NMEC methods at either a site- or population-level to forecast and quantify energy savings and total system benefit.

2024-2027 forecasted impacts:

- \$7,653,426 in Total System Benefit (TSB)
- (3,717,604) in net kWh as a result of a focus on electrification
- 593,770 net therms reduced
- 1,925 tons CO<sub>2</sub>e mitigated

- 0.24 TRC/Admin
- 0.25 PAC/Admin
- Commercial RA TRC, with admin 1.01
- Commercial RA PAC, with admin 1.04

Rural REN’s original Business Plan application did not include a budget for CPUC EM&V. The budgets included in the CCR REN Business Plan include both PA and CPUC EM&V.

Segment Metrics: CCR REN understands that the metrics and indicators associated with programs are likely to change in the near future based on forthcoming guidance from the CPUC. Metrics noted within this Business Plan are unchanged from the original Rural REN business plan, but CCR REN will update them as needed based on the anticipated CPUC guidance. CCR REN plans to provide updated metrics within its program level implementation plans. This will include any relevant metrics specific to CCR REN (*i.e.*, REN “value” metrics). In addition to the discussions related to D.23-06-055, OP 11 regarding Common Metrics, Market Support Indicators, and Equity Indicators, CCR REN will also monitor discussions regarding a goals construct (D.23-06-055, OP 25) and requirements for demographic indicators and community engagement (D.23-06-055, OP 23 and OP 24).

### **List of Attachments**

This AL contains the following attachments:

Attachment A: Energy Efficiency Portfolio Application of the Central California Rural Regional Energy Network (Business Plan, Exhibits 1-3)

Attachment B: Energy Efficiency Portfolio Application CCR REN Responses, Pursuant to Energy Division Templates (Exhibit 4)

### **Tier Designation**

This AL has a Tier 3 designation pursuant to OP 9 of D.24-09-031.

### **Effective Date**

Pursuant to General Order (GO) 96-B, this Tier 3 AL shall become effective after Commission approval.

### **Protest**

Anyone may protest this Advice Letter by filing a protest with California Public Utilities Commission. The protest must be submitted electronically and must be received by January 20, 2024, which is 20 calendar days after the date this Advice Letter is filed.

The protest should be sent via e-mail to the attention of the CPUC Energy Division at [EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov). A copy of the protest should also be sent via e-mail to the addresses shown below on the same date it is sent to the Commission:

Trevor Keith  
County of San Luis Obispo  
[tkeith@co.slo.ca.us](mailto:tkeith@co.slo.ca.us)

Melissa Brandt  
Brandt Energy Strategies – consultant for County of San Luis Obispo  
[melissa@brandtenergystrategies.com](mailto:melissa@brandtenergystrategies.com)

There are no restrictions on who may file a protest, but the protest shall set forth specifically the grounds upon which it is based and shall be submitted expeditiously.

**Notice**

A copy of this submittal has been served on the official Commission service lists for A.22-02.005 *et al.* and R.13-11-005.

/s/ Trevor Keith  
Trevor Keith  
Director, Planning and Building  
County of San Luis Obispo  
for the Central California Rural Regional Energy Network





# ADVICE LETTER SUMMARY

## ENERGY UTILITY



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

Company name/CPUC Utility No.:

Utility type:

☐ ELC ☐ GAS ☐ WATER  
☐ PLC ☐ HEAT

Contact Person:

Phone #:

E-mail:

E-mail Disposition Notice to:

### EXPLANATION OF UTILITY TYPE

ELC = Electric      GAS = Gas      WATER = Water  
PLC = Pipeline      HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #:

Tier Designation:

Subject of AL:

Keywords (choose from CPUC listing):

AL Type: ☐ Monthly ☐ Quarterly ☐ Annual ☐ One-Time ☐ Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #:

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

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? ☐ Yes ☐ No

If yes, specification of confidential information:

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

Resolution required? ☐ Yes ☐ No

Requested effective date:

No. of tariff sheets:

Estimated system annual revenue effect (%):

Estimated system average rate effect (%):

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

Tariff schedules affected:

Service affected and changes proposed<sup>1</sup>:

Pending advice letters that revise the same tariff sheets:

<sup>1</sup>Discuss in AL if more space is needed.

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

California Public Utilities Commission  
Energy Division Tariff Unit Email:  
[EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)

Contact Name:  
Title:  
Utility/Entity Name:  
  
Telephone (xxx) xxx-xxxx:  
Facsimile (xxx) xxx-xxxx:  
Email:

Contact Name:  
Title:  
Utility/Entity Name:  
  
Telephone (xxx) xxx-xxxx:  
Facsimile (xxx) xxx-xxxx:  
Email:

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

Attachment A:

Energy Efficiency Portfolio Application of the Central  
California Rural Regional Energy Network  
(Business Plan, Exhibits 1-3)

Energy Efficiency  
Portfolio Application

— of the —

**Central California Rural  
Regional Energy Network**



*Cover art by Keri Davis, SharpEnd Designs*

*Cover photos clockwise from left: Tulare County, California (c/o County of Tulare),  
Cambria, California (c/o Woods), Eastern Sierra (c/o Keri Davis), Big Sur, CA (AMBAG)*

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# EXECUTIVE SUMMARY

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## FOR RURAL, BY RURAL, EQUITY-FOCUSED

The Central California Rural Regional Energy Network (CCR REN) will support an equitable and affordable clean energy transition for under-served communities. By leveraging regional collaboration, trusted local relationships, and promoting pragmatic responses to community needs, the CCR REN will support communities that have historically not participated in energy efficiency programs. Part of serving rural communities is understanding the unique perspectives as well as accepting views and opinions that often do not align with California's metropolitan areas. The CCR REN will help our rural communities support California's ambitious greenhouse gas (GHG) reduction policies while achieving the California Public Utilities Commission's (CPUC) energy efficiency savings goals, in terms that rural customers can accept, support, and in time, champion.

We are proud of the Central California Rural REN's efforts to bring clean energy practices and programs to our three regions of California: Central Coast, Eastern Sierra, and San Joaquin Valley. We are committed to remaining zealous advocates for rural customers while tirelessly sharing our vision. We support the vision of a clean energy future. To achieve this, all Californians must be part of it.

Our portfolio approach builds upon our past energy efficiency program experiences to maximize opportunity, reduce unnecessary costs, and to lessen market confusion. We are poised to continue our focus on helping customers save energy using comprehensive energy efficiency tactics, increasing awareness of energy efficiency opportunities, and increasing local workforce capacity—all largely in rural hard-to-reach, disadvantaged, and underserved communities.<sup>1</sup> Rural California can support the vision for a clean energy California, but will only succeed with the assistance of trusted partners.

"The heightened economic vulnerability of rural communities has garnered significant attention in recent months, prompting many to call for concentrated fiscal relief to help

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<sup>1</sup> D18-05-041, FOF 11. "CalEPA, pursuant to Health and Safety Code Section 39711, defines disadvantaged communities as those census tracts scoring in the top 25 percent of census tracts statewide on the set of 20 different indicators in CalEnviroScreen. As part of its definition of disadvantaged communities, CalEPA also finds that an additional 22 census tracts that score in the highest five percent of CalEnviroScreen's Pollution Burden indicator, but that do not have an overall CalEnviroScreen score in the top 25 percent because of unreliable socioeconomic or health data, are also defined as disadvantaged communities."



rural residents, small businesses, and state and local governments weather the COVID-19 crisis. Yet alongside this call, some scholars [...] argue that to lay the groundwork for true rural resilience and chart a more equitable recovery trajectory than the previous one, rural economic development policy requires a fundamental shift—one that recognizes the vast diversity of rural America and invests in local strategies that strengthen community assets and bolster local leadership to promote truly resilient economic opportunity.<sup>12</sup>

The idea of the Central California Rural REN is a direct response to the unique issues and urgent needs of geographically hard-to-reach, disadvantaged and underserved, Central California energy customers.

#### *Urgent Needs of Geographically Hard-to-Reach Energy Customers*

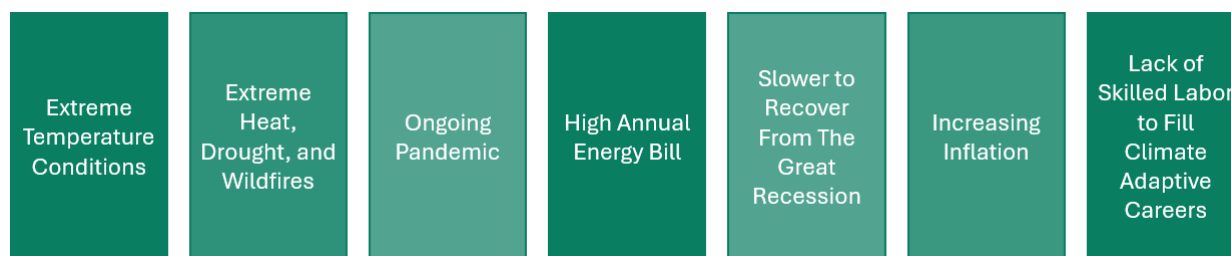


FIGURE 1

Our focus and highest priority objective is to provide energy efficiency services to underserved and hard-to-reach rural ratepayers. Appropriately 70% of our total proposed budget is allocated to the Equity segment. For Central California Rural REN equity is more than a segment; it's imbued into our governance and decision making. As rural Californians, we experience firsthand that rural issues are equity issues.

When we look at equity from the rural perspective, it always begins with access. Looking at equity for the purposes of the Central California Rural REN, we look to those who have studied equity in energy efficiency in depth and identify those experts who are uniquely positioned to impact and influence our process: The American Council for an Energy-Efficient Economy (ACEEE) and the California Energy Efficiency Coordinating Committee (CAEECC) Equity Metrics Working Group (EMWG).

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<sup>2</sup> Love, & Powe. (2020, December 1). Why Main Streets are a key driver of equitable economic recovery in rural America. Brookings. <https://www.brookings.edu/research/why-main-streets-are-a-key-driver-of-equitable-economic-recovery-in-rural-america/>

The ACEEE, in their *Leading with Equity Initiative*,<sup>3</sup> looks at equity through the lens of “four dimensions of equity”: structural, procedural, distributional, and transgenerational. The CAEECC EMWG set out to consider the new Equity segment and how portfolios could be justifiably designed, budgeted, measured, and evaluated. The ACEEE presented their findings to the EMWG in May 2021 for consideration in their efforts to determine equity metrics.<sup>4</sup>

The ACEEE initiative considers how to include equity-centered metrics in programs. To begin the process of designing and delivering a just and equitable energy system, we must consider these four dimensions of equity, their historical legacy, and how we can inclusively overcome them.

Structural Equity recognizes the historical, cultural, and institutional dynamics that led to inequities in clean energy. To address this, decision makers must reform policies and programs that resulted in the inequity and work collaboratively to build policy and programs that are “fair, just, and equitable” for all.

Procedural Equity creates inclusive and accessible processes for developing and implementing clean energy programs. This includes authentic engagement and representation in the process. Our community members must have an active leadership role in this process to ensure that their needs and concerns inform and drive the development and outcomes of programs, goals, and solutions.

This process of addressing both structural and procedural equity begins with the Central California Rural REN itself. This coalition of rural energy efficiency program implementers comes to the process with experiences and understanding of our local needs. We deepen this and drive it into our Central California Rural REN process through inclusion and priority placement of the Equity and Environmental and Social Justice (ESJ) Advisory Committee.

Considering Distributional Equity, we keep at the front of our minds that no one community shoulders an unjust burden. We must consider how to fairly distribute the benefits and burdens across all segments of communities. Our policies and programs—

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<sup>3</sup> Drenthobl. (2021, December). ACEEE’s Leading with Equity Initiative: Key Findings and Next Steps. <https://www.aceee.org/sites/default/files/pdfs/Leading%20with%20Equity%20final%201-28-22.pdf>

<sup>4</sup> Hayes, & Gerbode. (2021, May 6). Health + Energy Program Design Network [Slides]. California Energy Efficiency Coordinating Committee. [https://www.caeccc.org/\\_files/ugd/849f65\\_cc09174c1a324b6a8082d3671de1d603.pdf](https://www.caeccc.org/_files/ugd/849f65_cc09174c1a324b6a8082d3671de1d603.pdf)

at the Central California Rural REN level but influencing up to the state level—must fairly distribute benefits and burdens.

We contend that the historical importance of cost effectiveness has kept Investor Owned Utilities (IOUs) and third-party providers from being able to tackle this, even if they would like to. The California Public Utilities Commission (CPUC) acknowledges the growing “conflict between cost-effectiveness and other equally or more important policy objectives such as equity and support for the energy efficiency market”<sup>5</sup>. The intent and design of the RENs gives us a unique opportunity to build on our history of working collaboratively with the IOUs and third-parties to tackle distributional equity in our spaces. Together we can design and deliver policies and programs that effectively and equitably reach our community members, lower energy bills, create clean energy jobs, generate investment dollars, and build community wealth to achieve a reimagined future for our rural spaces.

The work we endeavor to do cannot be absent of the impact on future generations. Transgenerational Equity asks us to consider and eliminate practices that could place unfair burdens on our children.

With direction from D.21-05-031, Portfolio Administrators must reconsider their portfolio segmentation through three approaches: resource acquisition, market support, and equity. Equity, in this Decision, is defined as, “programs with a primary purpose of providing energy efficiency to hard-to-reach or underserved customers and disadvantaged communities in advancement of the Commission’s ESJ Action Plan. Improving access to energy efficiency for ESJ communities, as defined in the ESJ Action Plan, may provide corollary benefits such as increased comfort and safety, improved air

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<sup>5</sup> D. 21-05-031, Page 13. “Overall, we find it important to reduce the conflict between cost-effectiveness and other equally or more important policy objectives such as and support for the energy efficiency market. Furthermore, we acknowledge that while a TRC ratio appropriately compares the benefits and costs of a program targeted primarily at delivering grid benefits, it may not be the most appropriate tool for judging whether energy efficiency funding was prudently spent on programs which support equity or market support goals. The benefits delivered by these types of programs are not assessed using the CET or ACC, and therefore other methods are necessary.”

quality, and more affordable utility bills, consistent with Goals 1, 2, and 5 in the ESJ Action Plan”<sup>6</sup>.

The work of the CAEECC EMWG sought to set objectives and metrics to Equity programs to ensure portfolio segmentation, design, and budgets are justified, as well as to allow for program tracking and evaluation. When considering a primary objective for the segment, the group concluded, “For hard-to-reach, disadvantaged, and/or underserved individuals, households, businesses, and communities: address disparities in access to energy efficiency programs and workforce opportunities\*; promote resilience, health, comfort, safety, energy affordability\*\*, and/or energy savings; and reduce energy-related greenhouse gas and criteria pollutant emissions\*\*\*.”<sup>7</sup>

The Central California Rural REN equity-focused approach lets us honor the findings of the EMWG as well as the work from ACEEE. By approaching equity as the focus point for program design and delivery, we can accelerate the investment in and adoption of energy efficiency policies and practices in our communities. Central California Rural REN is more than just geographically hard-to-reach -- within the population there are many underserved, disadvantaged customers, and it is time to make a concerted effort to serve them.

Through a focused and strategic portfolio of program offerings across the Resource Acquisition, Equity, and Codes and Standards segments, Central California Rural REN will achieve:

**Equity:** Hard-to-reach, disadvantaged and underserved rural customers are provided with the same level of services and support of CPUC energy programs as their counterparts in or near metropolitan areas, and are empowered to act.

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<sup>6</sup> Id, Page 14. “Programs with a primary purpose of providing energy efficiency to hard-to-reach or underserved customers and disadvantaged communities in advancement of the Commission’s Environmental and Social Justice (ESJ) Action Plan;3 Improving access to energy efficiency for ESJ communities, as defined in the ESJ Action Plan, may provide corollary benefits such as increased comfort and safety, improved indoor air quality, and more affordable utility bills, consistent with Goals 1, 2, and 5 in the ESJ Action Plan.”

<sup>7</sup> Equity Metrics Working Group. (2021, October). Report and Recommendations to the California Public Utilities Commission and the Energy Efficiency Program Administrators. California Energy Efficiency Coordinating Committee. [https://4930400d-24b5-474c-9a16-0109dd2d06d3.filesusr.com/ugd/849f65\\_422f2a5a35bb4bcbbabe50e7eccc6f2.docx?dn=Final%20EMWG%20Report\\_10.20.2021.docx](https://4930400d-24b5-474c-9a16-0109dd2d06d3.filesusr.com/ugd/849f65_422f2a5a35bb4bcbbabe50e7eccc6f2.docx?dn=Final%20EMWG%20Report_10.20.2021.docx)

**Reduced Consumption:** Energy consumption, energy cost and GHG emissions are reduced across the region, contributing to California’s decarbonization and energy efficiency goals.

**Climate Adaptive Careers:** A trained, local workforce is employed in well-paying careers that provide energy services to rural communities to enable energy and cost savings, and GHG emissions reductions.

## ABOUT CENTRAL CALIFORNIA RURAL REN

The Central California Rural REN is a Regional Energy Network formed and led by five members of the Rural Hard-to-Reach Working Group (RHTR)<sup>8</sup>. RHTR is an alliance of rural California local governments and non-profits experienced in implementing energy efficiency programs through previous IOU Local Government Partnerships (LGPs), American Recovery and Reinvestment Act (ARRA), and California’s Proposition 39 funding. RHTR has a primary goal of advancing local, regional, and state policy and regulatory decisions in rural California to



FIGURE 2

bring consistent and quality energy services and products necessary to meet the state’s energy efficiency and sustainability goals in its represented communities. With an underlying shared vision to bring equity to rural customers, five of the working group members collaborated to form the Central California Rural REN. The partners comprise the Central California Rural REN with their customers spread across three geographically hard-to-reach regions of California. The Central California Rural REN regions, counties, population, and land area are shown above in Figure 2 below in Table 1. The combined Central California Rural REN service territory population of 5.4 million people represents

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<sup>8</sup> RHTR became a party to CPUC Rulemaking 13-11-005, Order Instituting Rulemaking Concerning Energy Efficiency Rolling Portfolios, Policies, Programs, Evaluation, and Related Issues, to offer its input as a collection of implementers of government and community partnerships for energy efficiency throughout the rural areas of California.

approximately 14% of California's total population, but its land area of 50,200 square miles is approximately 30% of California's total land area.

*Central California Rural REN Regions, Partners, Counties, Square Miles, and Population*

Central California Rural REN Region	Partner Organization	Counties Served	Land Area, sq. miles	Population
Central Coast	Association of Monterey Bay Area Governments (AMBAG)	Monterey, San Benito, Santa Cruz	5,114	770,933
	County of San Luis Obispo (SLO)	San Luis Obispo	3,299	281,712
San Joaquin Valley	San Joaquin Valley Clean Energy Organization (SJVCEO)	Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare	27,262	4,312,165
Eastern Sierra	High Sierra Energy Foundation (HSEF)	Inyo, Mono	13,230	32,048
Total:			50,220	5,396,858

TABLE 1



Association of Monterey Bay Area Governments (AMBAG) was organized in 1968 for the purpose of regional collaboration and problem solving. AMBAG, as it is often referred to, was formed as a Joint Powers Authority (JPA) governed by a 24 member Board of Directors comprised of elected officials from each City and County within the region. The AMBAG region includes Monterey, San Benito and Santa Cruz County. AMBAG serves both as the federally designated Metropolitan Planning Organization (MPO) for all three counties and the Council of Governments (COG) for Monterey and Santa Cruz Counties. In 2005, AMBAG established its sustainability program which focuses on the implementation of energy efficiency, zero emissions transportation, and climate action planning initiatives. From 2006 to 2020, AMBAG implemented the AMBAG Energy Watch PG&E local government partnership program.

Since 2021, AMBAG has worked as a subconsultant to the SJVCEO as part of the Central California Energy Watch Program.



The County of San Luis Obispo has been a member County with the Tri-County Regional Energy Network (3C-REN) since 2019 and was the implementer of the PG&E San Luis Obispo Energy Watch Partnership (SLO Energy Watch) from 2010 through 2019. With this energy and programmatic experience, the County of SLO is well versed in developing and delivering programs in rural communities that are effective and tangible for residents, building, professionals, and stakeholders.



The High Sierra Energy Foundation (HSEF), a registered 501(c)(3) non-profit, established in 2005, promotes the culture of energy efficiency and sustainability in the rural Eastern Sierra communities of Inyo and Mono counties. HSEF implemented a Local Government Partnership for over a decade and has provided outreach for statewide programs such as Flex Your Power, Energy Upgrade California and the Residential Energy Efficiency Loan program. In 2019, the organization started implementing the Eastern Sierra Green Business Program, affiliated with the CA Green Business Network. HSEF has worked with Southern California Edison, the Los Angeles Department of Water and Power, the SoCalREN and the California Department of Food and Agriculture on community partnership initiatives, ensuring the communities they serve are aware of, and can benefit from, programs available to other California ratepayers.



The San Joaquin Valley Clean Energy Organization (SJVCEO) was founded in 2007 as a 501(c)(3) non-profit to work with cities and counties as well as public and private organizations to demonstrate the benefits of energy efficiency and renewable energy throughout the eight-county region of the San Joaquin Valley. SJVCEO's work focuses on regional solutions for various issues, including advancing the use of local renewables, energy efficiency, demand reduction, climate action planning, and alternative transportation. SJVCEO currently implements the Valley Innovative Energy Watch with Southern California Gas Company and the Central California Energy Watch (CCEW) for public agencies with PG&E. The organization serves as a Regional Partner supporting the SoCalREN public agency and multi-family programs, as well as other IOU and non-IOU funded work beyond energy efficiency.



## CENTRAL CALIFORNIA RURAL REN'S PORTFOLIO OF PROGRAMS

Central California Rural REN is a direct response to underrepresented rural California energy customers' unique issues and urgent needs. The Central California Rural REN will address the needs of rural California customers with a portfolio focused on Equity segment across Public, Residential, Workforce Education and Training, Codes and Standards, Commercial, and Finance sectors. Sector strategies will include a range of outreach, training, technical and financial assistance, all designed to help rural communities implement energy savings measures as well as build local economies and workforces. A thoughtfully planned, phased portfolio approach offers a mix of flexible programs customized to the needs of local communities that will evolve and expand over the eight-year funding cycle.

## CENTRAL CALIFORNIA RURAL REN GOVERNANCE MODEL

Central California governance model provides strong, centralized fiscal control, management of performance and achievement of goals as well accomplish with regulatory and policy mandates. The organization includes Implementing Agencies, Technical Advisory Committees, Leadership Team, and an Internal Administrator operating under a decision-making framework that:

- Defines and assigns the multi-levels of governance: local leadership, centralized decision making
- Delineates scopes of authority with a single Internal Administrator
- Describes what and how decisions are made at each level of governance
- Establishes channels for effective and transparent communication
- Takes input and advice from multiple stakeholders
- Prioritizes local delivery

Figure 3, the governance model shows the function and relationships of the Central California Rural REN.



### Central California Rural REN Governance Model

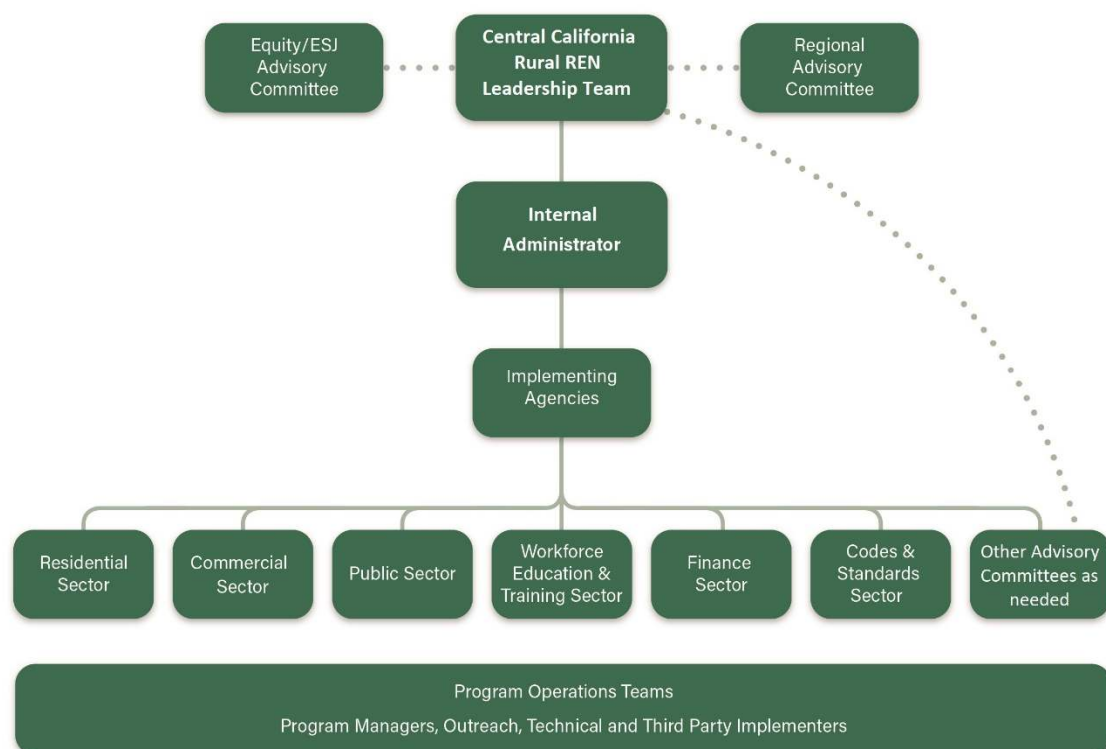


FIGURE 3

The **Internal Administrator**, County of San Luis Obispo, acts as the Lead Agency and is responsible for: filing required regulatory submissions and reporting to the CPUC; representing Central California Rural REN in CPUC proceedings and on committees as necessary; managing portfolio-wide procurement and contracts; providing oversight of budgets and coordinating with IOUs on invoicing and regulatory requirements. The Internal Administrator can delegate roles and responsibilities to members of the Leadership Team.

The **Leadership Team** is the Central California Rural REN Board of Directors and makes portfolio-level strategy, operations, and policy decisions. The Leadership Team is comprised of one representative from each partner. Each representative holds one equal vote. To conduct Leadership Team business or hold a vote, a minimum of three (3) Leadership Team members (or alternates) must be present. A simple majority of the leadership team is required to pass consent items, while a two-thirds majority is required on any other vote.

**Regional Advisory Committee:** provides input and recommendations regarding opportunities to update and enhance programs. This advisory committee will be formed during the first four months of operation and will be comprised of a variety of stakeholders from each region.

**Equity and ESJ Advisory Committee:** provides input and recommendations regarding opportunities to incorporate and enhance equity and diversity of the organization and its programs. This advisory committee will be formed during the first four months of operation and will be comprised of advocates of diversity, equity and inclusion from local governments, community-based organizations, schools/colleges, and other organizations within Central California communities.

**Implementing Agencies** are responsible for engaging the counties they serve and designing and delivering programs that reflect the existing service gaps and needs expressed in those counties. The manner of engagement is within the authority of the Implementing Agencies which makes its own decisions regarding staffing, procurement, etc., and may expand in future portfolio cycles.

**Member Cities, Towns, and Counties** are the Central California Rural REN constituency and have a critical voice in the decision-making process, particularly in terms of articulating service gaps and defining the unique needs of customers in their counties.

**Technical Advisory Committee(s)** includes staff from Implementing Agencies that have expertise in program design, development, implementation, and management. This committee is responsible for helping to define program offerings; monitoring program performance, challenges, and barriers; augmenting, altering, and adapting programs to address problems, and supporting the roll-out of new programs.

**Program Operations Teams** include the sector and program technical and outreach leads, consultants, and managers who run sector programs.

## CENTRAL CALIFORNIA RURAL REN PROCUREMENT POLICY

As a steward of ratepayer funds, transparency and strong fiscal control is critical. In furtherance thereof, Central California Rural REN has adopted the following procurement policy:

All procurements, regardless of the issuing partner organization, shall follow the Internal Administrator's agency procurement guidelines and thresholds, unless a partner has

more restrictive policies than that of the administrator's agency, in which case it is assumed that the internal administrator's threshold/requirements are met and exceeded. All solicitations shall be reviewed and evaluated by a selection committee composed of at least three different Central California Rural REN leadership team organizations, including one from the internal administrator.

## DEFINING RURAL CUSTOMERS

The basis of rurality lies in the need to provide all Californians with equal access to energy efficiency programs and services. There is some level of debate about the definition of rural, so for the purposes of the Central California Rural REN, we will rely on the CPUC's hard-to-reach definition, where the CPUC has recognized that geographic location is a barrier to participating in energy efficiency

"...Rurality encompasses much more than traditional measures of population, commuting patterns and proximity to urban centers. It is a function of historical and present-day patterns of racism and exploitation that have resulted in the uneven development that characterizes not only California's rural areas, but its many "rural-connected" cities as well."

- California Legal Assistance, Inc.

programs for residential and small businesses.<sup>9</sup> Central California Rural REN logically extends this geographic barrier to include all customers in rural areas. The majority of the 14 counties represented by the Central California Rural REN met CPUC's definition of geographically hard-to-reach and over 75% of Central California Rural REN's population lives in geographically hard-to-reach communities.<sup>10</sup>

California's rural communities also are home to large populations in other CPUC-defined equity categories, including hard-to-reach, disadvantaged and underserved.

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<sup>9</sup> D. 18-05-041, FOF 14. The CPUC identifies geographic location as barrier to participating in energy efficiency programs for residential and small businesses. The CPUC defines this barrier as: "Businesses or homes in areas other than the United States Office of Management and Budget Combined Statistical Areas of the San Francisco Bay Area, the Greater Los Angeles Area and the Greater Sacramento Area or the Office of Management and Budget metropolitan statistical areas of San Diego County. Businesses or homes in disadvantaged communities, as identified by CalEPA pursuant to Health and Safety Code Section 39711."

<sup>10</sup> Id, COL 27. "Programs targeted at hard-to-reach customers should prioritize the most underserved customers or customer segments, because they are likely the hardest to reach. There is considerable overlap in the policy objectives for disadvantaged communities and hard-to-reach customers. The definition of hard-to-reach should reflect this overlap by including disadvantaged communities, as identified by CalEPA, as an additional criterion for meeting the geographic component of the hard-to-reach definition."

Additionally, many rural customers are low-income qualified, or are just above that threshold.<sup>11</sup> Thus, the Central California Rural REN will focus primarily on energy efficiency solutions that are consistent with the CPUC objectives for the newly formed Equity program category.

## LOOKING AHEAD THROUGH THE LENS OF EQUITY

Without a Central California Rural REN, California runs the risk of a wholesale loss of rural and geographically hard-to-reach service capacity built from previous program endeavors funded through the IOU's Local Government Partnerships, (LGP), American Recovery and Reinvestment Act (ARRA), Proposition 39, and other state and local sources.



PHOTO 1

While IOUs make efforts to reach rural customers, continued pressure on them and third-parties to improve cost-effectiveness and reduce program delivery costs, have led to increased emphasis on California metropolitan areas with abundant and scalable energy savings potential and less emphasis on more costly program delivery to rural markets. Additional cost-effectiveness pressures are expected to continue, which will result in lower levels of participation from rural communities

The time has come for a connected and collaborative rural movement. The Central California Rural REN will help deliver an equitable and clean energy future. When we impact people in their jobs, homes, communities, and their ability to access capital—we change lives. Together we build communities that contribute to regions and those regions all rise together.

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<sup>11</sup> California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA), California Communities Environmental Health Screening Tool: CalEnviroScreen 4.0, *Updated October 2021*

## EXHIBIT ONE: STRATEGIC BUSINESS PLAN

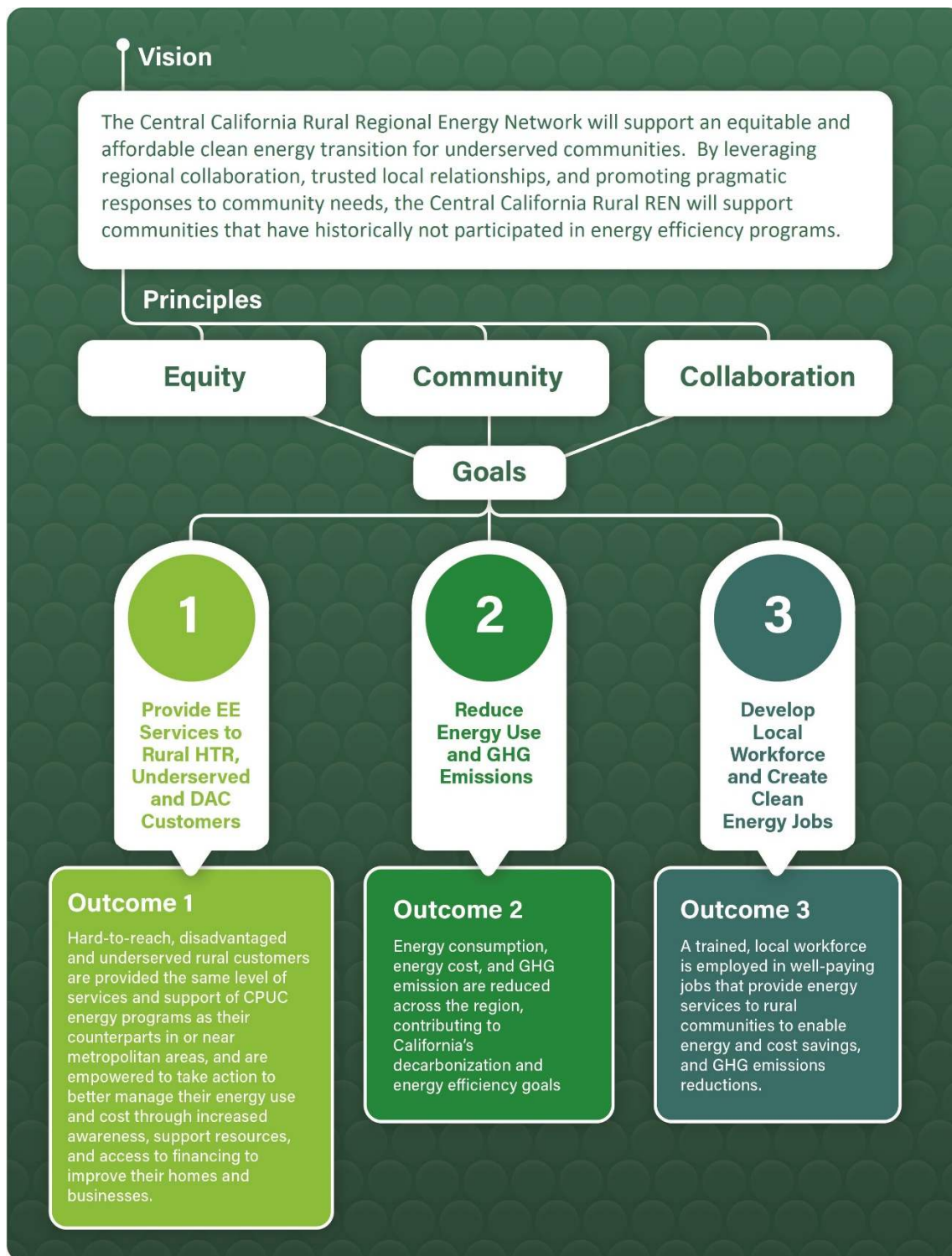


FIGURE 4

## VISION FOR EE IN CA: 2024-2031

The Central California Rural REN approach—for rural, by rural, equity-focused—offers a complementary path to deliver innovative approaches for reducing energy use and expanding adoption of integrated demand resources across California’s vast rural community. According to the Berkeley Labor Center, rural counties in California constitute nearly a quarter of the state’s electric energy market. Rural California customers can be served best through a locally delivered Central California Rural REN.

While the Central California Rural REN’s portfolio will not be held to the same cost-effectiveness requirements as non-REN Portfolio Administrators (PAs),<sup>12</sup> the Central California Rural REN is committed to developing programs that enhance services, realize bill and energy savings, and provide value to IOU ratepayers. The Central California Rural REN will leverage economies of scale and situational similarity to provide services that are additive, rather than duplicative or competitive, to existing IOU, CCA or REN energy efficiency programs.

## GUIDING PRINCIPLES

These principles will guide the Central California Rural REN Business Plan in how we approach the needs and opportunities of rural California.

Equity – integrate equity, environmental and social justice principles into Central California Rural REN’s decision making and operations.

Community – incorporate local needs and wants to ensure solutions meet the needs of the rural communities we serve.

Collaboration – work closely with other rural agencies, PAs, and program implementers to improve rural customer program access and participation to avoid duplication and create synergies.

## PORTFOLIO OUTCOMES

Consistent with the Central California Rural REN’s Guiding Principles, our proposed portfolio will achieve the following outcomes.

Outcome 1: Hard-to-reach, disadvantaged, and underserved rural customers in Central California are provided with the same level of services and support of CPUC energy

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<sup>12</sup> Decision 19-12-021, Conclusion of Law #11, page 85



programs as their counterparts in, or near metropolitan areas, and are empowered to take action to better manage their energy use and cost through increased awareness, support resources, and access to financing to improve their homes and businesses.

The Central California Rural REN will support structural, procedural, distributional, and transgenerational equity for rural California through a multifaceted approach that:

- Places program delivery tasks in the hands of local providers and workers. Third-parties are not motivated to address the rural market due to a focus on program cost-effectiveness and cost-efficiency in program delivery. As energy efficiency increasingly becomes automated we lose local presence. IOUs are steadily reducing their employee footprints resulting in a loss of monetary and community presence.
- Relies on trained local workforce and short-term project financing to increase the number of energy efficiency projects in rural communities.
- Advances California energy policies through direct demonstration to elected officials that local economies directly benefit from an increase in local clean energy investments, careers, and customer bill savings.

*Outcome 2: Energy consumption, energy cost, and GHG emission are reduced across the region, contributing to California's decarbonization and energy efficiency goals*

The Central California Rural REN's proposed portfolio of programs will raise awareness of the benefits of energy efficiency and decarbonization. The programs will provide the necessary information, technical support, financial resources, and actionable recommendations for rural customers to implement energy efficient technologies and practices. When a customer decides to take action to implement energy efficiency measures, they will be guided to an IOU core or third-party resource acquisition program to ensure savings are captured and reported. This is consistent with our guiding principle of collaboration. The Central California Rural REN will continue to grow and maintain engagement with energy efficiency industry providers and PAs to ensure the most effective use of resources, avoid duplication, and streamline the customer experience. With its local presence and engagement with customers, the Central California Rural REN will make it easier for these other program providers to identify and complete energy efficiency projects quickly, making rural communities more attractive to serve.

As local needs, policies, or technologies evolve, the Central California Rural REN will design and test complementary program offerings, delivered by local workforces, to uniquely address objectives and barriers. As individual programs prove successful in reducing market barriers and achieving expected outputs and outcomes, the Central California Rural REN will look to offer programs in other rural regions. We expect such sharing of best practices to be adjusted according to the unique challenges and opportunities presented in specific rural areas, such as more focused GHG emission reduction to help mitigate higher level of pollutants in the San Joaquin Valley.

*Outcome 3: A trained, local workforce is employed in well-paying jobs that provide energy services to rural communities to enable energy and cost savings, and GHG emissions reductions.*

The Central California Rural REN will deliver local energy efficiency solutions through a trained workforce. The current IOU Trade Pros in our rural regions provide only 15 out of 154 qualified firms.<sup>13</sup> To overcome such operational barriers, rural California needs trained local workers to better educate customers in both energy efficiency and decarbonization to increase awareness and adoption of environmentally-friendly energy efficiency solutions.

People invest in what invests in them. If job and career prospects develop for rural workers, then a community is more likely to embrace clean energy and its supportive policies. The Central California Rural REN will serve discordant political ideologies, but the more that local elected officials and leaders see the positive economic impacts of job creation and direct customer bill savings, the more likely they are to support and advance aggressive energy policies at the local level.

As stewards of the regions we serve, we remain committed to helping our communities grow and thrive through clean energy, while maintaining a rural character. Being able to adapt and respond to local needs is one of our greatest strengths. Part of serving rural spaces is understanding the unique perspectives and accepting their views and opinions that are often not in alignment with the rest of the state. It is our responsibility to help

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<sup>13</sup> Find Trade Professionals. (2022). Pacific Gas and Electric Company. [https://www.pge.com/en\\_US/small-medium-business/building-and-property-management/find-contractors-and-trade-professionals/find-a-service-provider.page](https://www.pge.com/en_US/small-medium-business/building-and-property-management/find-contractors-and-trade-professionals/find-a-service-provider.page); Trade Pro Directory. (2022). Southern California Gas Company. <https://www.socalgas.com/for-your-business/trade-pro/trade-pro-directory>; Find A Vendor. (2022). Southern California Edison. <https://sce-trade-ally-community.force.com/tradeally/s/vendor-search>



our communities meet California’s ambitious energy and climate policy goals, in terms they can accept, support, and in time, champion.

The Central California Rural REN Implementing Agencies have a proven record of:

- Relationships with local governments and trusted, established community-based organizations
- A history of delivering local EE programs
- Collaborative working relationships with IOUs, RENs, CCAs, and third-parties
- Community involvement
- Involvement shaping regulatory and state policies

## DESCRIPTION OF SERVICE TERRITORY

### GEOGRAPHIC FACTORS

The Central California Rural REN will serve a vast area of California as shown in Figure 5. The region covers approximately 50,000 square miles – roughly 32% of the state’s land area and includes 14 of California’s 58 counties. The population of the region is 5.4 million - 13.7% of the state’s population. Population density of the region is relatively sparse, at 110 people per square mile, which is significantly lower than California’s overall population density of 254 people per square mile. In comparison, Table 2 below presents land areas and populations served by other



FIGURE 5

California Regional Energy Networks. Clearly, the large land area, diverse geography of the region alone make achieving energy efficiency objectives much more difficult than in metropolitan regions. The Central California Rural REN will rely on its Implementing Agencies, which have decades of experience in energy efficiency programs and deep-rooted relationships with their communities throughout the three regions. The Central California Rural REN Implementing Agencies will be the primary contact for energy efficiency program providers to help them increase rural program participation while tailoring specific and complementary local program offerings of their own.

## California RENs, Area, and Population Served

REN Name	Counties	Cities	Population	Area, sq. miles	Population / Sq. Mile
CCR REN	14	89	5.4 million	48,905	109
3C-REN	3	25	1.6 million	7,877	201
BayREN	9	101	7.8 million	6,907	1,123
Rural REN - North	17	26	1.6 million	29,344	58
I-REN	2	52	4.5 million	27,263	170
SDREN	1	18	3.2 million	4,207	782
SoCalREN	12	220	20 million	50,000	400

TABLE 2

## CLIMATE ZONES

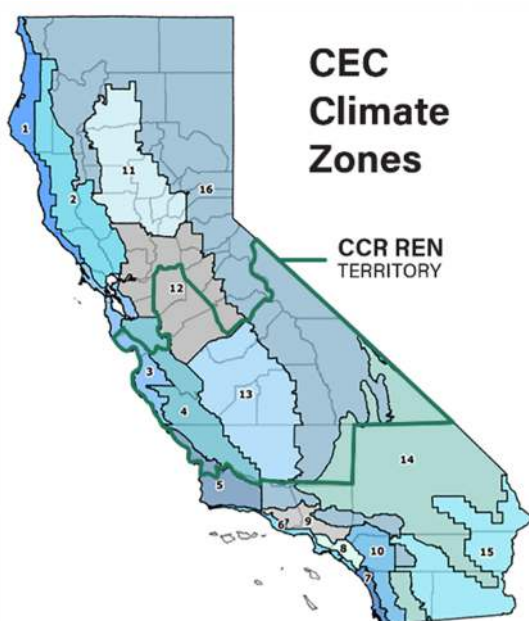


FIGURE 6

The Central California Rural REN region is characterized by diverse geographic areas ranging from the central coast, to the central valley to the high mountainous region in the eastern part of the state. These areas have climates that include some of the state's most extreme temperature conditions, causing higher than average energy consumption, and energy cost burden. Figure 6 shows the different climate zones across the region. Table 3 shows the average heating and cooling degree days for each climate zone, which are a proxy for heating and cooling energy consumption. Encompassing 7 of the 16

California Energy Commission (CEC) climate zones, the diverse climates where the Central California Rural REN customers live, present an opportunity for energy savings and system benefits that the Central California Rural REN will address with innovative, focused solutions.

*Heating and Cooling Degree Days in Central California Rural REN Climate Zones*

Climate Zone	CCR REN Region	Heating Degree Days	Cool Degree Days
1	N/A	4295	15
2	N/A	3144	500
3	Central Coast	3071	183
4	Central Coast	2548	666
5	Central Coast	2654	464
6	NA	1383	742
7	NA	1497	865
8	NA	1481	1072
9	NA	1460	1456
10	NA	1685	1620
11	NA	3149	1354
12	San Joaquin Valley	2621	1226
13	San Joaquin Valley	2443	1599
14	San Joaquin Valley, Eastern Sierra	2422	3056
15	NA	1177	4760
16	Eastern Sierra	5057	596

*TABLE 3*

## DEMOGRAPHICS

Central California Rural REN Demographics	
DEMOGRAPHIC CATEGORY	REGION AVERAGE STATS
<b>Land mass</b> (land area in square miles)	<b>48,905</b>
<b>Population</b>	<b>5,396,858</b>
Percentage population in Central California Rural REN territory	<b>13.71% of California's Population</b>
<b>Median household income</b>	<b>\$75,523.65</b>
<b>Education Breakdowns</b>	
HS grad or higher (percentage of persons age 25+, 2018-2022)	<b>78.54%</b>
Bachelor's degree or higher (percentage of persons age 25+, 2018-2022)	<b>22.23%</b>
<b>Unemployment rates (2020)</b>	<b>11.25%</b>
<b>Unemployment rates (2023)</b>	<b>7.23%</b>
<b>Age Range</b>	
Persons under 5	<b>6.79%</b>
Persons under 18	<b>26.76%</b>
Persons above 18	<b>60.04%</b>
Persons 65 or above	<b>13.21%</b>
<b>Language other than English spoken</b> (5 years and older)	<b>43.35%</b>
<b>Number of federal and state recognized tribes</b>	<b>16</b>
<b>Square miles of federal and state recognized tribal lands</b>	<b>146</b>
<b>Percentage of veterans in population 18 and older</b>	<b>5.00%</b>
Number of census tracts	<b>978</b>
Number of HTR census tracts	<b>763</b>
Number of DAC census tracts	<b>389</b>
Number of low-income census tracts	<b>520</b>
Percentage population living in a geographically HTR area	<b>76.37%</b>
Percentage population living in a SB 535 <b>"disadvantaged community"</b>	<b>39.12%</b>
Percentage population living in a AB 1550 <b>"low-income communities"</b>	<b>49.62%</b>
Percentage of schools where 75% or more students are eligible to receive <b>free and reduced price meals</b>	<b>55.80%</b>
<b>Probation</b> (probation caseloads in state that are in CCR REN territory)	<b>21.59%</b>

PHOTO 2


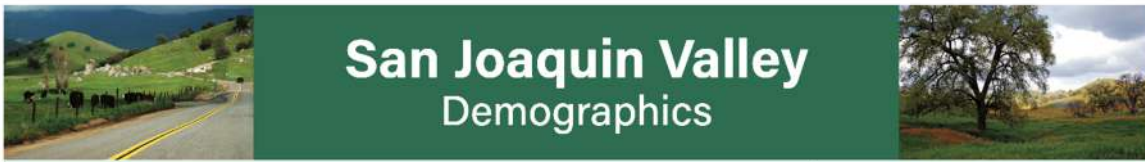
	
DEMOGRAPHIC CATEGORY	REGION AVERAGE STATS
<b>Land mass</b> (land area in square miles)	<b>8,413</b>
<b>Population</b>	<b>1,052,645</b>
Percentage population in Central California Rural REN territory	<b>19.50%</b>
<b>Median household income</b>	<b>\$95,151.35</b>
<b>Education Breakdowns</b>	
HS grad or higher (percentage of persons age 25+, 2018-2022)	<b>83.11%</b>
Bachelor's degree or higher (percentage of persons age 25+, 2018-2022)	<b>33.76%</b>
<b>Unemployment rates (2020)</b>	<b>9.60%</b>
<b>Unemployment rates (2023)</b>	<b>5.68%</b>
<b>Age Range</b>	
Persons under 5	<b>5.50%</b>
Persons under 18	<b>21.70%</b>
Persons above 18	<b>61.30%</b>
Persons 65 or above	<b>16.90%</b>
<b>Language other than English spoken</b> (5 years and older)	<b>38%</b>
<b>Number of of federal and state recognized tribes</b>	<b>0</b>
<b>Square miles of federal and state recognized tribal lands</b>	<b>0</b>
<b>Percentage of veterans in population 18 and older</b>	<b>5.30%</b>
Number of census tracts	<b>209</b>
Number of HTR census tracts	<b>148</b>
Number of DAC census tracts	<b>4</b>
Number of low-income census tracts	<b>80</b>
Percentage population living in a geographically HTR area	<b>69.70%</b>
Percentage population living in a SB 535 <b>"disadvantaged community"</b>	<b>2.50%</b>
Percentage population living in a AB 1550 <b>"low-income communities"</b>	<b>41.30%</b>
Percentage of schools where 75% or more students are eligible to receive <b>free and reduced price meals</b>	<b>37.90%</b>
<b>Probation</b> (probation caseloads in CCR REN territory that are in Central Coast territory)	<b>11.30%</b>
<b>Probation</b> (probation caseloads in state that are in Central Coast territory)	<b>2.43%</b>

PHOTO 3





DEMOGRAPHIC CATEGORY	REGION AVERAGE STATS
<b>Land mass</b> (land area in square miles)	<b>27,262</b>
<b>Population</b>	<b>4,312,165</b>
Percentage population in Central California Rural REN territory	<b>79.90%</b>
<b>Median household income</b>	<b>\$70,283.35</b>
<b>Education Breakdowns</b>	
HS grad or higher (percentage of persons age 25+, 2018-2022)	<b>77.25%</b>
Bachelor's degree or higher (percentage of persons age 25+, 2018-2022)	<b>19.17%</b>
<b>Unemployment rates (2020)</b>	<b>11.72%</b>
<b>Unemployment rates (2023)</b>	<b>7.69%</b>
<b>Age Range</b>	
Persons under 5	<b>7.10%</b>
Persons under 18	<b>28.00%</b>
Persons above 18	<b>59.70%</b>
Persons 65 or above	<b>12.20%</b>
<b>Language other than English spoken</b> (5 years and older)	<b>45%</b>
<b>Number of federal and state recognized tribes</b>	<b>7</b>
<b>Square miles of federal and state recognized tribal lands</b>	<b>135</b>
<b>Percentage of veterans in population 18 and older</b>	<b>4.90%</b>
Number of census tracts	<b>760</b>
Number of HTR census tracts	<b>606</b>
Number of DAC census tracts	<b>385</b>
Number of low-income census tracts	<b>434</b>
Percentage population living in a geographically HTR area	<b>77.80%</b>
Percentage population living in a SB 535 <b>"disadvantaged community"</b>	<b>48.40%</b>
Percentage population living in a AB 1550 <b>"low-income communities"</b>	<b>51.50%</b>
Percentage of schools where 75% or more students are eligible to receive <b>free and reduced price meals</b>	<b>60.80%</b>
<b>Probation</b> (probation caseloads in CCR REN territory that are in San Joaquin Valley territory)	<b>87.98%</b>
<b>Probation</b> (probation caseloads in state that are in San Joaquin Valley territory)	<b>18.95%</b>

PHOTO 4



 <h2 style="text-align: center;">Eastern Sierra Demographics</h2> 	
DEMOGRAPHIC CATEGORY	REGION AVERAGE STATS
<b>Land mass</b> (land area in square miles)	<b>13,230</b>
<b>Population</b>	<b>32,048</b>
Percentage population in Central California Rural REN territory	<b>0.60%</b>
<b>Median household income</b>	<b>\$71,066.96</b>
<b>Education Breakdowns</b>	
HS grad or higher (percentage of persons age 25+, 2018-2022)	<b>90.64%</b>
Bachelor's degree or higher (percentage of persons age 25+, 2018-2022)	<b>30.08%</b>
<b>Unemployment rates (2020)</b>	<b>9.78%</b>
<b>Unemployment rates (2023)</b>	<b>3.84%</b>
<b>Age Range</b>	
Persons under 5	<b>4.50%</b>
Persons under 18	<b>19.80%</b>
Persons above 18	<b>59.70%</b>
Persons 65 or above	<b>20.50%</b>
<b>Language other than English spoken</b> (5 years and older)	<b>19%</b>
<b>Number of federal and state recognized tribes</b>	<b>9</b>
<b>Square miles of federal and state recognized tribal lands</b>	<b>11</b>
<b>Percentage of veterans in population 18 and older</b>	<b>7.00%</b>
Number of census tracts	<b>9</b>
Number of HTR census tracts	<b>9</b>
Number of DAC census tracts	<b>0</b>
Number of low-income census tracts	<b>6</b>
Percentage population living in a geographically HTR area	<b>100.00%</b>
Percentage population living in a SB 535 <b>"disadvantaged community"</b>	<b>0.00%</b>
Percentage population living in a AB 1550 <b>"low-income communities"</b>	<b>75.40%</b>
Percentage of schools where 75% or more students are eligible to receive <b>free and reduced price meals</b>	<b>13.90%</b>
<b>Probation</b> (probation caseloads in CCR REN territory that are in Eastern Sierra territory)	<b>0.72%</b>
<b>Probation</b> (probation caseloads in state that are in Eastern Sierra territory)	<b>0.16%</b>

PHOTO 5

## ENERGY CHARACTERISTICS

### UTILITIES SERVICING CENTRAL CALIFORNIA REN

The Central California Rural REN service territory is served primary by IOUs Pacific Gas and Electric (PG&E), Southern California Gas Company (SCG), and Southern California Edison (SCE). Electricity in the Central California Rural REN territory is provided by PG&E and SCE, as well as other Publicly Owned Utilities (POUs). Natural gas is provided by PG&E, SoCalGas, as well as pockets served by other providers and various companies provide unregulated propane to customers in all regions of the Central California Rural REN. Table 4 shows utilities serving the Central California Rural REN regions, while Figure 7 shows the Central California Rural REN regions overlaid on a map of all utility service territories. Initially, only customers of at least one of the three IOUs will be eligible for participation in the Central California Rural REN energy efficiency programs. Central California Rural REN will coordinate with utility providers in the region to explore possible collaboration with, and co-funding of programs to include non-IOU customers soon.

Historically, overlapping service providers offering similar, yet different programs lead to customer confusion. When programs are bound by utility providers, and not consistent across a region, customers suffer.

#### Utilities Serving Central California Rural REN Customers

##### *Utilities Serving Central California Rural REN Customers*

CCR REN Region	Electricity Providers	Natural Gas Providers
Central Coast	PG&E	PG&E, SoCalGas
San Joaquin Valley	PG&E, SCE Lodi Electric Utility, Port of Stockton, Modesto Irrigation District, Turlock Irrigation District, Merced Irrigation District.	PG&E, SoCal Gas, City of Coalinga
Eastern Sierra	SCE, LAWPD	

TABLE 4





## ANNUAL ENERGY COST AND ENERGY BURDEN

*Annual energy cost and energy burden in the Central California Rural REN regions are higher than non-rural California.*

### *Annual Energy Cost and Energy Burden- Average*

Region	Energy Burden	Annual Cost (Electric, Gas & Propane)
California	1.82%	\$1,901.46
CCR REN	2.62%	\$2,265.81
Non CCR REN	1.70%	\$1,848.60

TABLE 5

According to the ACEEE, “rural households in every region of the United States have a higher median energy burden than the median in their region”.<sup>14</sup> This is true in the Central California Rural REN service territory as well -- the average energy burden in the Central California Rural REN is 35% higher than the rest of California. This could be attributed to generally larger household sizes and a higher percentage of expensive propane fuel in the Central California Rural REN area. The Central California Rural REN also has more single-family homes than non-rural parts of California and larger households (occupants per housing unit).

### *Propane Use- Rural vs Non-Rural Household*

Region	Residential Propane Therms	Residential Propane Therms per Occupied Household
California	258,474,424	19.8
CCR REN	53,280,817	32.4
Non CCR REN	205,193,607	18

Census data for proportion of primary heating fuel (2015-2019 average), assumptions on usage using CARB 2019 propane emissions and emissions factor

TABLE 6

<sup>14</sup> Drehtobl, A., L. Ross, and B. Stickles. July 2018. The High Cost of Energy in Rural America: Household Energy Burdens and Opportunities for Energy Efficiency. Washington, DC: American Council for an Energy-Efficient Economy

### *Housing Types- Central California Rural REN vs. California Average*

Location	Single Detached	Single Attached	Two to Four Units	Five Plus Units	Mobile Homes
California	57%	7%	8%	24%	4%
CCR REN	71%	4%	8%	12%	5%
Non CCR REN	55%	8%	8%	26%	3%
Source: California Department of Finance 2024					

TABLE 7

### *Average Number of People per Household*

Location	Occupied Housing Units	Population	Population per Housing Unit	% Living in Unincorporated Areas / Communities	% Occupied Housing Units in Unincorporated Areas / Communities
California	13,880,371	38,201,264	2.75	18.6%	18.8%
CCR REN	1,761,064	5,272,160	2.99	26.8%	27.5%
Non CCR REN	12,119,307	32,929,104	2.72	17.2%	17.6%
Source: Total January 1st, 2024, population and housing units from CA Dept of Finance					

TABLE 8

## CENTRAL CALIFORNIA RURAL REN CONSIDERATIONS

### *HARD-TO-REACH, DISADVANTAGED AND/OR UNDERSERVED*

Central California Rural REN's customers are largely hard-to-reach, disadvantaged and/or underserved.

California's rural regions face higher poverty and unemployment rates than their urban and suburban counterparts, and struggle with a lack of well-paying jobs.<sup>15</sup> Rural California continues to suffer disproportionately from the ongoing recession.<sup>16</sup> This is compounded by a recent bout of increased inflation, 7% in 2021 and 6.5% in 2022, which are the highest jump in 40 years.<sup>17</sup> Rural regions consistently suffer from higher unemployment rates than urban cores, and this is compounded by the number of seasonal jobs in tourism and agriculture in rural areas. The Central California Rural REN's proposed

<sup>15</sup> Ono, How to Spur Prosperity in Overlooked Rural California and Benefit the Entire State, California Forward, October 1, 2018

<sup>16</sup> Koppam, Raksha. "Gaps in U.S. Rural and Urban Economic Growth Widened in the Post-Great Recession Economy, with Implications amid the Coronavirus Recession." Equitable Growth, 6 Aug. 2020, <https://equitablegrowth.org/gaps-in-u-s-rural-and-urban-economic-growth-widened-in-the-post-great-recession-economy-with-implications-amid-the-coronavirus-recession/>.

<sup>17</sup> U.S. Bureau of Labor Statistics, 12-month percentage change, Consumer Price Index, selected categories, <https://www.bls.gov/charts/consumer-price-index/consumer-price-index-by-category-line-chart.htm>

workforce development and career creation efforts help address and bridge this urban/rural divide. Of the Central California Rural REN population, 16.2% have income below the Federal poverty level, compared to 12.1% for all of California, and 11.5% for non-Central California Rural REN areas. Median income of the Central California Rural REN population is \$75,523, 23.5% below the non-Central California Rural REN median income of \$98,390, 18% below the median income of \$91,905 for all of California.

*Percentage of Population Below Federal Poverty Level*

Region	Percent of Population Below Federal Poverty Level
California	12.1%
CCR REN	16.2%
Non CCR REN	11.5%

TABLE 9

*Median Income, Central California Rural REN vs California*

Region	2018-2022 Median Income
California	\$ 91,905
CCR REN	\$ 75,523
Non CCR REN	\$ 98,390

TABLE 10

Table 11 show unemployment rates for California for the past 33 years. The data indicates that, prior to COVID-19, Central California Rural REN communities had consistently higher unemployment rates than the state average, by 1.5% to 3% depending on the

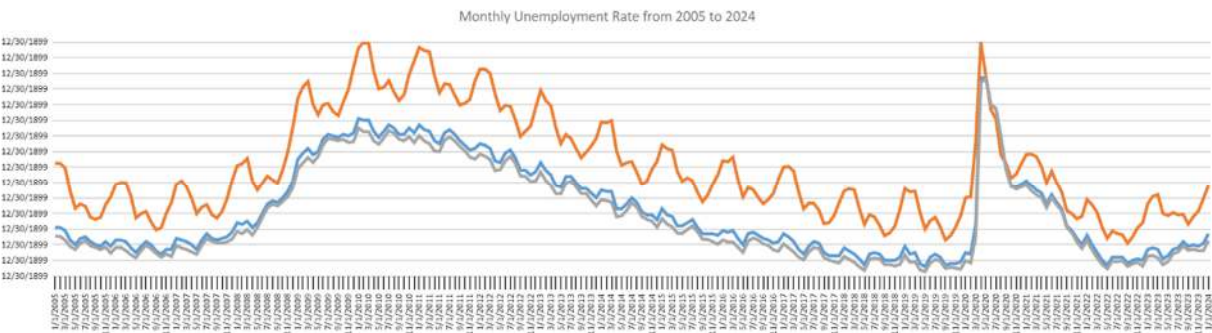


TABLE 11

season. Central California Rural REN regions have a much larger variability in unemployment rates due to the seasonal nature of jobs in the agriculture and tourism industries.

The data also demonstrates that rural economies respond to job market stressors more severely than the rest of California, as seen in the unemployment trends from the 2008 recession and the recovery from COVID-19. These unemployment trends, over more than three decades, underscore the need for energy-related workforce training and services in rural regions.

The Central California Rural REN will focus much of its attention on equity-targeted communities and customers in all three CPUC-defined equity categories: hard-to-reach, disadvantaged, and underserved. Table 12 shows estimated Central California Rural REN populations that are hard-to-reach and/or disadvantaged.

*Central California Rural REN DAC, HTR, Underserved Populations*

Region	Total Population	Number of Counties	Population in Disadvantaged Census Tracts	Population in Low Income Census Tracts	Number of HTR Counties	% Population in Disadvantaged Communities	% of Population in Low Income Communities	% of Population in HTR Areas
California	39,356,104	58	9,656,617	18,467,316	31	24.54%	46.92%	33.54%
CCR REN	5,396,858	14	2,111,252	2,677,858	9	39.12%	49.62%	76.37%
Non CCR REN	33,959,246	44	7,545,365	15,789,458	22	22.22%	46.50%	26.76%

TABLE 12

According to the CPUC, disadvantaged communities are identified as those in the top 25% of the list of census tracts created by CalEPA's CalEnviroScreen tool. Figure 8 shows the location of disadvantaged communities in the Central California Rural REN's region. "The definition of hard-to-reach should reflect this overlap by including disadvantaged communities, as identified by CalEPA, as an additional criterion for meeting the geographic component of the hard-to-reach definition."<sup>18</sup>

<sup>18</sup> D. 18-05-041, COL27

Underserved “ESJ communities are commonly identified as those where residents are: predominantly communities of color or low-income; underrepresented in the policy setting or decision-making process; subject to a disproportionate impact from one or more environmental hazards; and likely to experience disparate implementation of environmental regulations and socio-economic investments in their communities.”<sup>19</sup>

Hard-to-reach – “Those customers who do not have easy access to program information or generally do not participate in energy efficiency programs due to a combination of language, business size, geographic, and lease (split incentive) barriers.”<sup>20</sup>

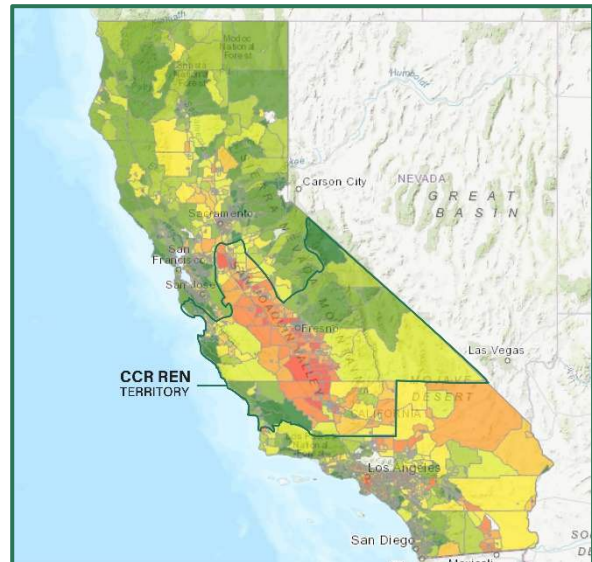


FIGURE 8

### *ECONOMIC IMPACTS OF RECESSION, INFLATION, AND ON GOING PANDEMIC*

Rural economies were the hardest hit by the 2008 recession and the slowest to recover<sup>21</sup>. By 2017, average rural employment was still two percent lower than in 2007. Businesses were hit especially hard—in the first four years of the recovery, counties under 100,000 lost 17,500 businesses, while economies in counties over 1 million people added 99,000 businesses.<sup>22</sup> COVID-19 only exacerbates these pressures: The shutdown of commerce has already put small businesses, a key driver of rural economies, into an economic vise grip, and almost twice as many rural areas rely primarily on the recreation industry as urban areas.<sup>23</sup>

<sup>19</sup> Environmental and Social Justice Action Plan (V. 1). (2019, February). California Public Utilities Commission. <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/environmental-and-social-justice.pdf>

<sup>20</sup> Id, FOI4

<sup>21</sup> Koppam, Raksha. “Gaps in U.S. Rural and Urban Economic Growth Widened in the Post-Great Recession Economy, with Implications amid the Coronavirus Recession.” Equitable Growth, 6 Aug. 2020, <https://equitablegrowth.org/gaps-in-u-s-rural-and-urban-economic-growth-widened-in-the-post-great-recession-economy-with-implications-amid-the-coronavirus-recession/>.

<sup>22</sup> Ferguson, Pipa, Geismar, Redesign required: Principles for reimagining federal rural policy in the COVID-19 era, April 14, 2020

<sup>23</sup> IBID



As the global pandemic continues, business and residential customers have altered the ways they use energy.<sup>24</sup> In the energy efficiency industry, programs have responded with modifications to how programs are delivered to customers. The Central California Rural REN will collaborate with program providers to adjust program delivery to the new normal through locally sourced labor. The Central California Rural REN will also work with customers on identifying new barriers and opportunities to energy efficiency caused by the pandemic.

### *CAREER DISCONNECT*

Climate Adaptive Careers aren't part of the rural experience because they're not accessible.

When considering workforce development, environmental justice, clean energy curriculum in schools, and community engagement, these topics come to amalgamize under "climate adaptive career." Rapid changes happening within regulation, policy, industry and in our communities make clear that the scope is beyond just energy efficiency. Climate Adaptive Careers are reactive to climate change and displacement due to climate related events.

"Equity issues, including providing career opportunities to disadvantaged workers, can and should be implemented across the portfolio."<sup>25</sup>

Disadvantaged workers are those who meet one of the five criteria set forth D.18-10-008 ordering paragraph 9<sup>26</sup> defines disadvantaged workers as an individual who meet at least one of the following criteria:

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<sup>24</sup> Motya, Marlene, et al. "Energy Management: Paused by Pandemic, but Poised to Prevail." Deloitte Insights, Deloitte, 8 July 2020, <https://www2.deloitte.com/us/en/insights/industry/power-and-utilities/energy-study-of-businesses-and-residential-consumers.html>.

<sup>25</sup> Zabin, Carol et al, 2014, Workforce Issues and Energy Efficiency Programs: A Plan for California's Utilities, Donald Vial Center on Employment in the Green Economy and the Institute for Research on Labor and Employment. UC Berkeley. <https://laborcenter.berkeley.edu/pdf/2014/WET-Plan14.pdf>.

<sup>26</sup> D. 18-10-008, Op 9. "All energy efficiency program administrators shall define "disadvantaged worker," for purposes of their energy efficiency portfolios and tracking metrics or indicators associated with them, as an individual that meets at least one of the following criteria: lives in a household where total income is below 50 percent of Area Median Income; is a recipient of public assistance; lacks a high school diploma or GED; has previous history of incarceration lasting one year or more following a conviction under the criminal justice system; is a custodial single parent; is chronically unemployed; has been aged out or emancipated from the foster care system; has limited English proficiency; or lives in a high unemployment ZIP code that is in the top 25 percent of only the unemployment indicator of the CalEnviroScreen Tool. Personal information about individual workers may only be collected on a voluntary basis, and may not be used as criteria to determine particular workers assigned to projects funded as part of the energy efficiency business plans

- a. lives in a household where total income is below 50% of Area Median Income
  - is a recipient of public assistance;
  - lacks a high school diploma or GED;
  - has previous history of incarceration for one year or more following a conviction under the criminal justice system;
  - is a custodial single parent;
  - is chronically unemployed;
  - has been aged out or emancipated from the foster care system;
  - has limited English proficiency
- b. lives in a high unemployment ZIP code that is in the top 25 percent of only the unemployment indicator of the CalEnviroScreen Tool.

Given the demographics of the Central California Rural REN programs for disadvantaged workers are needed, but so is a more targeted approach to reach specific populations:

- Returning Citizens
- Veterans
- Opportunity Youth
- Communities of Color
- Women
- Displaced Agricultural Workers: those whose role in agriculture and Ag-supportive industry have been or will be replaced by automation.

The Central California Rural REN regions have a growing need and opportunity for career building to support our communities through accelerated training (upskilling of existing workers and training for new workers) and an increase in new opportunities for employment. Rural workers can support other Central California Rural REN programs and utility programs which benefits future generations and build community wealth through lower bills, more career opportunities and clean energy investments.

According to the Centers of Excellence, “Based on a comparison of occupational demand and supply, there is an undersupply of 1,181 trained workers in the subregion [Central Valley/Mother Lode] and 1,949 workers in the region. The Center of Excellence recommends that Fresno City College work with the regional energy, construction and utilities director, the college’s advisory board, and local industry in the expansion or



development of programs to address the shortage of construction crafts technology workers in the region.”

Broadly, the energy efficiency economy is facing trained worker shortages and traditional education pathways are being rejected by potential program participants. According to John Caresse, director of the Bay Region Center of Excellence for Labor Market Research, “Clearly there is a pipeline issue keeping up with the demand. We need to be mindful that younger workers are needed as we have an aging workforce in these sectors.”<sup>27</sup>

According to the United States Energy & Employment Report 2021,<sup>28</sup> California employers expected to add 15,124 jobs in energy efficiency in 2021, but they report an overall hiring difficulty of 85, with scores above 40 percent in both ‘very difficult’ and ‘somewhat difficult’ on a hiring difficulty scale.

In 2020 the ACEEE<sup>29</sup> researchers found, “employers expressed difficulty finding qualified energy efficiency workers, often citing candidates’ lack of experience, training, or technical skills,” and “According to 92% of our survey respondents, robust Operation and Maintenance technical skills are the most critical for achieving the expected energy efficiency...”

The 2019 Center for Energy Workforce Development Gaps in Workforce Study<sup>30</sup> reported the energy workforce demographics as 1% “Gen Z” (1997-2012), 29% “Millennials” (1981-1994/6), 37% “Gen X” (1965-1979/80), and 33% “Baby Boomers” (1946-1964). As Baby Boomers and early Gen X’ers retire, the need to attract younger workers grows. However, “In its fourth annual Student Lending Survey,<sup>31</sup> which surveyed current college students and high school juniors and seniors, Citizens found that a majority of both high school (69%) and current college students (70%) said that concerns around college affordability had an impact on their plans post high school and for Fall 2021 college enrollment.”

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<sup>27</sup> 2021 Workforce, Education, and Training Stakeholder Engagement Forum.” Investor-Owned Utilities (IOUs) Energy Efficiency Workforce Education and Training (WE&T) Program Team. 7 Dec. 2021.

<sup>28</sup> <sup>28</sup> National Association of State Energy Officials, et al. Washington, DC, 2021, United States Energy & Employment Report 2021

<sup>29</sup> Shoemaker, M., R. Ayala, and D. York. 2020. *Expanding Opportunity through Energy Efficiency Jobs: Strategies to Ensure a More Resilient, Diverse Workforce*. Washington, DC: American Council for an Energy-Efficient Economy. [www.aceee.org/research-report/u2010](http://www.aceee.org/research-report/u2010).

<sup>30</sup> Center for Energy Workforce Development, 2019, Gaps in the Energy Workforce 2019 Pipeline Survey Results, <https://cewd.org/documents/surveyreport/2019-GapsintheEnergyWorkforce-SurveyResults.pdf>.

<sup>31</sup> Griesmer, Bennett. “Citizens Survey Shows That Affordability Concerns Remain Top of Mind for Students and Families.” Citizens Survey Shows That Affordability Concerns Remain Top of Mind for Students and Families – Citizens Bank, Citizens Financial Group, Inc., 4 Aug. 2021, <https://investor.citizensbank.com/about-us/newsroom/latest-news/2021/2021-08-04-130526976.aspx>.

Traditional career pathways programs are less nimble and their ability to be reactive to climate crises and rapidly changing market demands is harder. “Changing, modifying, and updating curriculum in colleges/universities is a slow process. We acknowledge it and are working to improve it... The existing workforce needs to upskill quickly, and schools need to be able to offer ‘just-in-time’ trainings and faster training modules to keep up to date.”<sup>32</sup>

Trends in WE&T trend toward programs with career technical training emphasis; K-12 industry exposure; STEM programs focused on prestige careers, i.e., engineers, planners, architects.

An innovative approach is needed to ensure Climate Adaptive Careers are accessible to rural workers, but also deliver skills sets missing from traditional offerings. Existing programs with career technical training emphasis lack “soft skills” needed for business development and industry understanding. A turn-key training with soft skills, career support, certification and wraparound services built in is needed. Largely, there is a lack of awareness of the California energy efficiency market design, how programs are delivered, and which career opportunities exist. Finally, there is a growing need for career building and upskilling of existing workers in decarbonization.

Due to the lack of opportunities to train in-person in rural areas, trainees miss out on fundamental hands-on experience, creating education gaps and setting them at a disadvantage. While IOUs have a history of providing quality education through Energy Education Centers in-person and online WE&T programs, neither are necessarily a right fit for hyper-rural communities. The Central California Rural REN WE&T program should collaborate with IOU partners to utilize existing resources and expand the content reach into our communities.

“As historical patterns of exclusion shape housing and workforce disparities everywhere, including in cities, clean energy efforts that don’t intentionally target equity will often exacerbate inequalities and can leave the most marginalized community members vulnerable.”<sup>33</sup>

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<sup>32</sup> “2021 Workforce, Education, and Training Stakeholder Engagement Forum.” Investor-Owned Utilities (IOUs) Energy Efficiency Workforce Education and Training (WE&T) Program Team, 7 Dec. 2021.

<sup>33</sup> Dewey, A. 2022. Cities' Clean-Energy Equity Efforts Are Mixed, but Leaders Point the Way Forward. Washington, DC: American Council for an Energy-Efficient Economy. <https://www.aceee.org/blog-post/2022/01/cities-clean-energy-equity-efforts-are-mixed-leaders-point-way-forward>

## CLIMATE CHANGE IMPACTS



FIGURE 9

The regions comprised of the Central California Rural REN territory are facing increasing threats from climate change and climate-related disasters.

Climate change manifests in the territory through climate variability which is expanding wildfire seasons and more frequent catastrophic wildfires<sup>34</sup>, continued drought<sup>35</sup>, an increase in severe storms and precipitation events<sup>36</sup>, record heatwaves,<sup>37</sup> sea level rise<sup>38</sup>, and reduced snowpack and water resources.<sup>39</sup>

Wildfires have increased substantially in rural regions. The Central California Rural REN regions are highly represented in CPUC

High Fire Threat Districts. Combined, the total number of climate related events, including wildfires, drought, flooding, and temperature variances, from 1999 through 2021 has increased by over 13,000%. All 14 counties show regions of severe drought, and several are suffering from extreme drought conditions.<sup>40</sup> According to FEMA, most counties in the Central California Rural REN region have a relatively low ability to prepare

<sup>34</sup> California Department of Forestry and Fire Protection (CAL FIRE). "2021 Incident Archive." Cal Fire Department of Forestry and Fire Protection, State of California, 2022, <https://www.fire.ca.gov/incidents/2021>.

<sup>35</sup> Pugh, Brad. "California | U.S. Drought Monitor." U.S. Drought Monitor, National Drought Mitigation Center, University of Nebraska-Lincoln, 2022, <https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?CA>.

<sup>36</sup> Extreme Weather in California and Climate Change: Droughts and Flooding." Institute of the Environment and Sustainability at UCLA, The Regents of the University of California, 1 Apr. 2019, <https://www.ioes.ucla.edu/project/extreme-weather/>.

<sup>37</sup> "Climate in California: Temperatures in California Over Time." USAFacts.org, <https://usafacts.org/issues/climate/state/california#climate>.

<sup>38</sup> Anderson, Jeffrey K., "Sea-Level Rise in the Humboldt Bay Region - Update 2" (2018). Local Reports and Publications. 5. [https://digitalcommons.humboldt.edu/hsuslri\\_local/5](https://digitalcommons.humboldt.edu/hsuslri_local/5)

<sup>39</sup> Berg, N., and A. Hall (2017), Anthropogenic warming impacts on California snowpack during drought, *Geophys. Res. Lett.*, 44, 2511-2518, doi:10.1002/2016GL072104

<sup>40</sup> "Current U.S. Drought Monitor Conditions for California." *Drought.gov*, National Drought Mitigation Center, National Oceanic and Atmospheric Administration, and USDA, 2022, <https://www.drought.gov/states/california>.

for anticipated natural hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions when compared to the rest of the U.S.<sup>41</sup>

“Our health and climate are inextricably linked. From polluted air quality to shrinking food and waters supplies, communities across California...are already experiencing climate change’s harmful health impacts. The looming effects upon California’s communities, particularly those that are disproportionately vulnerable, are becoming increasingly urgent and severe.”<sup>42</sup>



FIGURE 10



FIGURE 11



FIGURE 12

Public health impacts from climate change have a large range of impacts and highlight inequities.

- Five of the 10 most polluted cities in the U.S. are located in the Central Valley, which includes more people of color and low-income families.<sup>43</sup>
- According to a 2016 American Lung Association report, counties in the San Joaquin Valley have the nation’s highest asthma rate for children<sup>44</sup>
- Increased heat days impact human health, and also increases the chances of vector borne disease.<sup>45</sup>
- Food insecurity from the climate is exacerbated by impacts on food production.<sup>46</sup>

<sup>41</sup> “FEMA: National Risk Index.” *FEMA’s Natural Hazards Risk Assessment Program*, Department of Homeland Security. <https://hazards.fema.gov/nri/map#>.

<sup>42</sup> Scroggins, Jennifer, et al. “6 Ways Climate Change Harms Health in California.” *Public Health Institute*, PHI’s Center for Climate Change and Health, 23 Apr. 2020, <https://www.phi.org/thought-leadership/6-ways-climate-change-harms-health-in-california/>.

<sup>43</sup> American Lung Association. (2016). *State of the Air 2016*. Chicago, IL. Retrieved from <http://www.lung.org/assets/documents/healthy-air/state-of-the-air/sota-2016-full.pdf>

<sup>44</sup> ID page 53

<sup>45</sup> “Impact of Climate on Workers.” Centers for Disease Control and Prevention, The National Institute for Occupational Safety and Health (NIOSH), 6 Dec. 2016, <https://www.cdc.gov/niosh/topics/climate/how.html>.

<sup>46</sup> Brown, M.E., et al. 2015. *Climate Change, Global Food Security, and the U.S. Food System*. 146 pages. [http://www.usda.gov/oce/climate\\_change/FoodSecurity2015Assessment/FullAssessment.pdf](http://www.usda.gov/oce/climate_change/FoodSecurity2015Assessment/FullAssessment.pdf)

Climate change impacts have, and will continue to, affect the regions in the Central California Rural REN territory, stressing the importance of energy efficiency, awareness of low GWP refrigerants, and clean, renewable energy as pathways to address climate change and to advance the state's decarbonization policies.

## ENERGY EFFICIENCY STRATEGY

The Central California Rural REN's proposed strategy for energy efficiency in rural communities starts with a core portfolio of programs aimed at addressing barriers that the Central California Rural REN customers face in implementing energy efficiency, including:

- increasing awareness of the benefits of energy efficiency and providing energy information and tools that will help spur on customer implementation of EE behaviors and measures
- supporting the initial capital outlay required to adopt new energy efficiency technologies and equipment
- training and resources for public agencies to ensure compliance with energy codes and make progress on achieving carbon reduction goals
- ensuring availability of skilled tradesmen and contractors needed to implement energy efficiency upgrades

The Central California Rural REN's energy efficiency strategy incorporates near- and long-term planning and goals. Near-term covers the first four years of operation (2024 – 2027), while longer-term addresses the period 2028 to 2031. Described in this section are strategies that will be implemented during the first three years, along with the general anticipated evolution of the portfolio for the second four-year cycle and beyond. As our rural communities become more aware of basic energy efficiency principles and technologies, the Central California Rural REN programs will incorporate more advanced energy management concepts and technologies, including demand response, load management, normalized metered energy consumption and others.

*STRATEGY FOR APPLICATION/USE OF VARIOUS AND NEW METHODS FOR SAVINGS FORECASTING AND QUANTIFICATION METHODS (E.G. NORMALIZED METERED ENERGY CONSUMPTION INCLUDING REQUIREMENTS IN PUBLIC UTILITIES CODE SECTION 25310 (C) (5))*

In its initial four-year portfolio, the Central California Rural REN will use the deemed methodology for savings forecasting and quantification. This is appropriate given the equity-focused small business incentive strategy of its Resource Acquisition program, and the limited past participation in energy efficiency programs in general within this customer sector in rural regions. Over time the Central California Rural REN will explore the feasibility of using NMEC methods at either site or population level to forecast and quantify energy savings and Total System Benefit (TSB).

*STRATEGIES FOR MARKET INTERVENTION AND ENERGY EFFICIENCY ADOPTION: E.G., TARGETED POINTS OF INTERVENTION; DELIVERY CHANNELS/PLATFORMS/METHODS*

The Central California Rural REN will deploy multiple strategies for market intervention and energy efficiency adoption. Strategies have been selected to address common barriers to energy efficiency adoption and tailored to the rural markets to be served within each sector. Strategies incorporate equity principles and needs throughout the portfolio. In future years, the portfolio strategies will increasingly emphasize equity, resilience, grid management and GHG reduction. Specific market intervention strategies are summarized in Table 13 below and discussed more in Exhibit Two: 2024-2027 Portfolio Plan.

### Strategies for Market Intervention and EE Adoption

Sector/ Program	Common Barrier Addressed	Intervention	Delivery Channels	Platforms/ Methods	Future Enhancements
CC-Codes & Standards	-Understanding of codes -Public agency resources stretched too thin	-Training of building officials and design, construction teams -Energy Coaches to support code enforcement staff	-Direct to public staff, design and construction teams	-Education & Training -Energy Coaches	-Electrification technologies -Renewable integration -Grid/Load Management
CC-Finance	-First cost	-OBF Bridge Loans -Microloans -Electrification	-Direct to customers -Trade Allies -Energy Advisors	-Revolving loan fund -No/low interest -Flexible terms	-On bill repayment
CC-WE&T	-Availability of skilled trades	-Training for disadvantaged youth and upskilling for trade workers	-Community-based organizations -Third party training organizations	-Proven training methods and curriculum -Equity-targeted candidates	-Renewable DG training
Public	-Resources/ Staffing	Benchmarking -Audits -CIP integration -Project implementation support (EE, DR, EV charging)	-Energy Advisors	-Deemed, custom -Shared database/EMIS	-NMEC -Renewable DG and storage support
Residential	-First Cost Hassle factor -Information	-Virtual and remote audits (EE, DR, EV charging) -Energy Advisor support -Financing	-Downstream -Trade Allies -Community Based Organizations	-Deemed, custom	-TOU rate management -Grid/Load Management -NMEC -Resilience measures
Commercial (SMB)	- Lack of Information - first cost -Split incentive	-Energy audits -Incentives	- Direct installation -Community support	- Deemed Savings	-Grid / TOU management -Resilience measures

TABLE 13



## NEW STRATEGIES FOR SPURRING INNOVATION

The Central California Rural REN approach—for rural, by rural, equity-focused—encourages rural communities to enter the energy efficiency arena. Through our guiding principles of equity, community, and collaboration we prioritize working closely with other rural agencies, elected and community leaders, community benefit organizations and the broader community to pull back the curtain on the industry and engage in accelerating the adoption of more climate supportive policies.

The Central California Rural REN Equity and ESJ Advisory Committee is an opportunity for community leader level exposure to the design and implementation process. Through a collaborative structure the Central California Rural REN benefits from our Equity and ESJ colleagues' experiences and input while the Central California Rural REN can provide an understanding of energy efficiency design and implementation. Similarly, the group can cross-share to build policy ideas that can address expanding adoption of GHG reducing technologies by their constituencies. The Central California Rural REN Regional Community Advisory Committees will provide a similar opportunity for the Central California Rural REN to work with community leaders to make energy efficiency more accessible to our communities.

Throughout all levels of interaction, the Central California Rural REN will seek to increase access points for the rural customer, as well as take in feedback on how to better penetrate the communities that can grow the industry forward more equitably.

### *Strategies for Spurring Innovation*

Innovation Channel/Opportunity	CCR REN Supporting Strategy
New, Diverse Business Entrants to EE Market	<ul style="list-style-type: none"><li>• Contracting opportunities emphasize diversity, green economy</li></ul>
Traditional Actors (Businesses) Moving Into EE Market	<ul style="list-style-type: none"><li>• WET upskilling</li><li>• Build awareness of EE business model in other markets</li><li>• Increased contracting opportunities for EE scope</li></ul>
Increase Adoption of New/Evolving GHG Reducing Technology	<ul style="list-style-type: none"><li>• Residential Audits, recommendations and financing</li><li>• Collaborate with Statewide Emerging Technologies Program to deploy new GHG technologies at rural customer sites</li><li>• Leverage non-EE funding for Electrification and GHG RDD to test new GHG technologies at rural customer sites</li></ul>

TABLE 14



## STRATEGY FOR INCORPORATING LOW GLOBAL WARMING POTENTIAL (LOW-GWP) REFRIGERANTS IN THE PORTFOLIO

According to California Air Resource Board (CARB), the most common refrigerant today, R-22, has a 100-year (GWP) of 1,810, almost 2,000 times the potency of carbon dioxide, so just one pound of R-22 is nearly as potent as a ton of carbon dioxide.<sup>47</sup> The Central California Rural REN will act as a trusted advisor to rural customers to advance the State's GWP refrigerant mitigation policies. As part of the Central California Rural REN's energy efficiency offerings, the Central California Rural REN will train and deploy local workforces throughout rural California to increase awareness of alternate refrigerant solutions to enable rural customers to adopt lower and zero-GWP refrigerant applications for all applicable technologies (e.g., electric heat pump water heaters, HVAC systems, refrigeration systems).

### Strategies for Incorporating Low-GWP Refrigerants

Portfolio Sector/Program	Low GWP Refrigerant Strategy
Codes & Standards	Provide information to building code officials, contractors, and designers about CFC phase out and low GWP refrigerant benefits code requirements
Finance	Minimum technical requirements for financed equipment (such as HVAC heat pumps, HPWHs; Low GWP Refrigerant information incorporated in audit reports
Public	Low GWP Refrigerant information incorporated in audit reports
Residential	Low GWP Refrigerant information incorporated in audit reports and home assessments
Workforce Education & Training	Provide information to WET participants about CFC phase out and low GWP refrigerant benefits and code requirements
Commercial	Incorporate low GWP refrigerant specifications for installed equipment where appropriate

TABLE 15

<sup>47</sup> *High-GWP Refrigerants*. (2022). California Air Resources Board

## PORTFOLIO MANAGEMENT STRATEGIES

### *SEGMENTATION STRATEGY SUMMARY*

The Central California Rural REN portfolio will focus on addressing the challenges of rural customers through complementary offerings in each of the three segments with an emphasis on non-resource Equity and Codes and Standards segments.<sup>48</sup> The following presents an overview of the Central California Rural REN's overarching objectives to guide each portfolio segment to support and advance the CPUC policy objectives.

**Equity** – the Central California Rural REN's focus, and highest priority objective is to provide energy efficiency services to underserved and hard-to-reach rural customers. Appropriately 70% of our total proposed budget is allocated to the Equity segment to fund outreach and education, financing, and workforce education and training to rural hard-to-reach communities. Historically, the residential sector in rural hard-to-reach areas has been underserved by energy efficiency programs, therefore it represents the Central California Rural REN's largest opportunity and portfolio focus.

**Resource Acquisition** – the Central California Rural REN is proposing one Resource Acquisition program serving the Commercial sector. While this program is classified as Resource Acquisition, it will target hard-to-reach, disadvantaged communities, and underserved participants consistent with the Central California Rural REN's equity objectives. This program will have a goal of 100% participation by hard-to-reach targeted customers. The proposed budget allocation for the Resource Acquisition segment is 21%.

**Codes and Standards** – Of the Central California Rural REN's portfolio budget, 9% is allocated to the Codes and Standards segment. This allocation aligns with the Central California Rural REN's main objectives to increase the efficiency of buildings and equip code enforcement agencies in rural hard-to-reach areas to comply with energy codes through our proposed Codes and Standards program.

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<sup>48</sup> D. 21-05-031, pp. 14-15. "... the Commission's Environmental and Social Justice (ESJ) Action Plan; 3 Improving access to energy efficiency for ESJ communities, as defined in the ESJ Action Plan, may provide corollary benefits such as increased comfort and safety, improved indoor air quality, and more affordable utility bills, consistent with Goals 1, 2, and 5 in the ESJ Action Plan."

## SECTOR STRATEGY

### COMMERCIAL

The Central California Rural REN's Commercial Sector program will focus on filling the unmet needs from other utility and statewide programs. It will deliver direct-to-customer rebates for energy efficiency and decarbonization upgrades as well as some direct install options. Also included are Energy Advisor services and financial incentives to small and medium-sized businesses. Region-specific outreach and

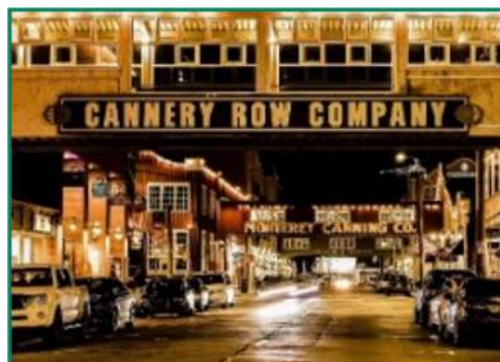


PHOTO 6

energy audits will provide specific, actionable recommendations for improving the place of business to reduce energy consumption and guide the customer toward available incentives and financing options offered by the Central California Rural REN or electric and gas utility companies and third-party program implementers. The Central California Rural REN will offer incentives for energy efficiency upgrades and GHG-reducing technologies such as heat pumps. Energy efficiency measures will include a variety of items like controls, HVAC, and plug loads/appliances.

#### Commercial Sector by Region

	Central Coast		San Joaquin Valley	Eastern Sierra
	AMBAG	SLO	SJVCEO	HSEF
Commercial	✓		✓	✓

TABLE 16

### CROSS CUTTING

#### CODES & STANDARDS

The Central California Rural REN's Codes and Standards program supports code enforcement agencies and better equips the building design and construction community to implement California's ambitious Building Energy Efficiency Standards (Title 24), helping make buildings more efficient, paving the way for zero net energy building stock, and reducing energy use and greenhouse gas emissions in rural California's most environmentally challenged regions.

## Codes and Standards Sector by Region

	Central Coast		San Joaquin Valley	Eastern Sierra
	AMBAG	SLO	SJVCEO	HSEF
Codes & Standards	✓		✓	✓

TABLE 17

## FINANCE

Barriers of first cost and access to capital remain as perhaps the biggest impediments to higher adoption rates of energy efficiency, especially in low- and moderate-income areas. Central California Rural REN's Finance program will address two areas of need.



PHOTO 7

The Bridge Loan program will supplement the IOUs' On-Bill Financing (OBF) loans with short-term loans to cover energy efficiency project costs during construction to "bridge" the time gap between application and funding of the OBF loan. This type of product covers energy efficiency project costs during construction to "bridge" the time gap between the time of application for IOU On-Bill Financing and funding of the OBF loan after construction completion. This gap can be many months, and in some cases a year or more. This type of funding lets non-residential customers implement energy efficiency projects quicker and eliminates the added cost of contractor or bank financing during construction.

The Central California Rural REN also will develop a microloan product that fills gaps in existing financing products such as GoGreen and PACE. The target customer groups would be residential and small to medium-sized businesses in the commercial, industrial, public, and agricultural sectors. The loan amounts are expected to be below currently available financing products (\$5,000) and would carry low or zero interest and fees.

Both loan programs will be fully developed through a competitive solicitation for design with the goal of creating products that meet needs of customers and complement existing offerings and avoiding conflict with the outcomes of the CPUC's ongoing Order

Instituting Rulemaking to Investigate and Design Clean Energy Financing Options for Electricity and Natural Gas Customer R.20-08-022.

By removing first cost barriers, the Central California Rural REN anticipates its finance strategy will 1) increase Resource Acquisition program participation; 2) increase IOU On-Bill Finance participation; 3) reduce turnover from project ideation to completion; and 4) drive more comprehensive energy projects.

#### Finance Sector by Region

	Central Coast		San Joaquin Valley	Eastern Sierra
	AMBAG	SLO	SJVCEO	HSEF
Finance	✓	✓	✓	✓

TABLE 18

## WORKFORCE, EDUCATION & TRAINING

The CCR REN's WE&T program accelerates training (upskilling of existing workers and training for new workers) and increases new opportunities for employment in geographically hard-to-reach places to meet immediate needs. Seeking to address equity issues in access to and awareness of energy related careers, the Central California Rural REN

"Energy efficiency workforce development programs cultivate the hard and soft skills necessary for success in the clean energy economy. Inclusive training programs prepare underrepresented individuals such as women, veterans, and the previously incarcerated for high-road careers in energy efficiency. By designing these programs to meet the needs of rural and disadvantaged community members, the RuralREN can ensure the readiness of local workers to deliver technologies that lower energy costs and keep dollars local."

—Mary Shoemaker, Senior Research Analyst, ACEEE

WE&T offering presents pathways to diffuse program benefits more equitably for rural Californians. While the program pathways—the Clean Energy Academy and Climate Careers are targeted broadly for disadvantaged workers, they specifically target returning citizens, veterans, Opportunity Youth, women, communities of color, and displaced Agricultural workers. The program addresses skills training, trades advancement, pre-apprenticeship placement and supports building professionals, while coordinating with third-party program implementers and local employers to increase opportunities. It will support training and employ Energy Advisors to deliver parts of the Central California Rural REN Residential program, as well as upskill trades in the regions. The Central California Rural REN can promote specific courses and hold seats for those in the trade ally network, allowing local contractors the ability to upskill through specific certifications and training. The benefit being received by the contractor, the program will offer

customized versions of in-person and virtual training curriculum to best serve the populations in each specific region. Individuals are enrolled into the program pathway that is best suited for them, and training is delivered directly and/or in coordination with the Central California Rural REN's community partners. The result ensures development of a well-trained and knowledgeable workforce that reflects the communities they live in.

#### *Workforce, Education, and Training Sector by Region*

	Central Coast		San Joaquin Valley	Eastern Sierra
	AMBAG	SLO	SJVCEO	HSEF
WE&T	✓		✓	✓

TABLE 19

## PUBLIC

The Central California Rural REN's Public Sector program will offer a suite of expert services to rural public agencies. Services will identify, develop, track, and implement energy savings opportunities in their buildings and facilities on the path to meeting mandates for GHG reduction and Zero Net Energy. Energy efficiency projects developed using the Central California Rural REN's support services will be tracked in a pipeline queue and handed off to



PHOTO 8

applicable IOU or other PA incentive programs and/or financing programs, including the Central California Rural REN's Bridge Loan Program. In addition to providing much-needed project services, the program will increase awareness and expertise of public agencies, improve information sharing among them and demonstrate leadership in energy efficiency within their local communities.

#### *Public Sector by Region*

	Central Coast		San Joaquin Valley	Eastern Sierra
	AMBAG	SLO	SJVCEO	HSEF
Public	✓			

Table 20



## RESIDENTIAL

The Central California Rural REN is proposing one program in the Residential Sector – an Equity Segment element offering Energy Advisor audits and do-it-yourself energy efficiency kits.



PHOTO 9

The Residential Equity Segment Program will provide outreach and energy awareness information targeting primarily low to moderate income rural service workers and retirees. It involves a community-based approach to raise the “energy literacy” of rural residential customers, including general awareness campaigns, simple energy efficiency do-it-yourself kits, and in-home Green House Call services provided by the Central California Rural REN WE&T Energy Advisors, as a pathway to adoption of more comprehensive and advanced energy upgrades. The Central California Rural REN programs will guide customers toward available incentives and financing options offered by the Central California Rural REN or electric and gas utility companies and third-party program implementers. The program will provide entry-level employment opportunities for individuals trained through the Central California Rural REN WE&T program. A small, innovative virtual home audit platform that provides customized recommendations and models the impact of ZNE/ZNC strategies will be tested in a limited area of the Central Coast region.

### *Residential Sector by Region*

	Central Coast		San Joaquin Valley	Eastern Sierra
	AMBAC	SLO	SJVCEO	HSEF
Residential	✓		✓	✓

TABLE 21

## VERY HIGH-LEVEL DISCUSSION OF STRATEGIES DRIVING DISTRIBUTION OF BUDGET AMONG SECTORS AND SEGMENTS

Strategies driving distribution of the budget and alignment with broader portfolio objectives are described below.

**Equity** – A large portion of the Central California Rural REN’s customer base falls into one or more of the CPUC’s three Equity-Targeted categories of hard-to-reach, underserved or disadvantaged. The Central California Rural REN’s Vision and goals focus on bringing energy efficiency programs and services to this rural customer base. Appropriately 70% of our total proposed program budget is allocated to the Equity segment to fund outreach and education, incentives, financing, and workforce education and training to rural customers.

**Resource Acquisition** – The Central California Rural REN is proposing one Resource Acquisition program serving the Commercial (SMB) sector. While this program is primarily classified as Resource Acquisition, it will target hard-to-reach, DAC and underserved participants consistent with Central California Rural REN’s equity objectives.

The Resource Acquisition segment budget is approximately 21% of the total Central California Rural REN’s proposed four-year program budget.

**Codes and Standards** – The Central California Rural REN’s main objective of the Codes and Standards segment is to increase the efficiency of buildings and equip code enforcement agencies in rural, hard-to-reach areas to comply with energy codes through our Codes and Standards program. The budget reflects the market size for the service over the four-year cycle.

The budget for Codes and Standards for 2024–2027 is approximately 9% of the total Central California Rural REN proposed budget. All of the Codes and Standards budget is allocated to the Codes and Standards program. The Codes and Standards program will provide support to the local rural building officials as well as the building design and construction industry to aid understanding of and compliance with energy codes.

Sector budgets are established to achieve overall portfolio goals, which are in turn based on the needs of our rural customer base. Past program participation, equity factors, and current and planned IOU and other PA-proposed program offerings in the region helped determine sector focus and level of effort needed. For example, Central California Rural



REN is not proposing to serve the Agriculture Sector because all three of the IOUs serving Central California Rural REN's region have large Resource Acquisition programs that will target the Agricultural Sector in regions served by Central California Rural REN.

Table 22 below shows the Sectors the Central California Rural REN proposes to serve, and regions where the Sector programs will be offered. As shown in the table, not all sectors/programs will be offered in all three Central California Rural REN Regions.

	Central Coast		San Joaquin Valley	Eastern Sierra
	AMBAC	SLO	SJVCEO	HSEF
Public	✓			
Codes & Standards	✓		✓	✓
Finance	✓	✓	✓	✓
Commercial	✓		✓	✓
WE&T	✓		✓	✓
Residential	✓		✓	✓

TABLE 22

Our flagship programs are Residential, Workforce Education and Training, and Finance because we believe these will have the biggest impacts on individual customers and rural communities by providing support in the areas of energy burden, jobs, and financial resources.

**Reduce Energy Burden:** We help reduce energy burden by helping customers identify and implement ways to reduce energy consumption, which then creates a more robust pipeline of projects for the Central California Rural REN, IOU or third-party resource programs.

**Increase Employment:** We create opportunities for Climate Adaptive Careers, and we train and place for those careers. We can improve career prospects by offering Climate Adaptive career training; career opportunities can be increased by driving more project opportunities and sending a pipeline to IOU, third-party programs.

**Bring Capital for EE Investments:** We bring needed capital to our rural communities in the form of bridge financing and potentially micro-lending for customers to adopt more comprehensive, costly energy efficiency and decarbonization measures.

The Codes and Standards sector is important because rural counties are notorious for lagging in code compliance, and as more and more customers migrate from urban and suburban areas to rural areas, new construction and home renovations will increase. The result will increase the demand for knowledgeable code enforcement officials and designers and builders. It is a challenge to achieve Title 24 compliance—the achievement of decarbonization and EE goals can be sped up by taking local action to ensure rural communities are not unprepared or left behind when pursuing these goals.

The Public program will be offered to hard-to-reach public agencies in AMBAG territory. The Central California Rural REN will coordinate with existing programs to ensure consistency.

The Commercial Resource Acquisition program fills gaps by serving hard-to-reach, disadvantaged and underserved commercial customers.

Budgets were determined through a zero-based budgeting approach and achieved by a combination of factors including the needs and market opportunities within regions and the gaps in services of other PAs being filled as described in the previous sections.

## **PORFOLIO COORDINATION**

### ***OTHER PAS***

The Central California Rural REN understands the critical importance of coordinating its portfolio and program operations with other PAs operating in the same areas to achieve goals, avoid duplication, and provide customers with consistent communications to avoid confusion. Coordination processes and interfaces will be memorialized in Joint Cooperation Memos between the Central California Rural REN and each PA active in the Central California Rural REN's service territory. Another effective venue for coordination with other PAs will be in regulatory proceedings and policy forums. The Central California Rural REN's implementing agencies have been, and will continue to be, active participants in CPUC proceedings and CAEECC and its working groups as a way of coordinating with other PAs and stakeholders.

### ***STATEWIDE PROGRAMS***

The Central California Rural REN will actively coordinate with all applicable statewide programs, including New Construction, Codes and Standards, Workforce Education and Training, and Market Transformation. The result will complement their offerings and

accelerate the Central California Rural REN's tailored solutions for rural hard-to-reach customers.

#### *OTHER DEMAND SIDE MANAGEMENT (DSM) PROGRAMS*

The Central California Rural REN will help advance rural customer adoption of other DSM programs, including Demand Response (DR), Technology and Equipment for Clean Heating (TECH) and Building Initiative for Low Emission Development (BUILD), Self-Generation Incentive Program (SGIP), Electric Vehicle Charging and other DSM and Distributed Energy Resources (DER) offerings.

The Central California Rural REN recognizes and respects the role and importance of the Energy Savings Assistance (ESA) programs and the value offered within our communities. Our offerings should enhance and expand, but never duplicate or overlap with ESA programs. The intention is to fill gaps, and ensure customers are holistically served. The Central California Rural REN Residential program will coordinate outreach and implementation with the ESA Programs.

#### *EVALUATION, MEASUREMENT, AND VERIFICATION (EM&V)*

The Central California Rural REN will collaborate with the CPUC and stakeholders to ensure that data collection activities are embedded across the Central California Rural REN program portfolio to capture the information necessary to meet evaluation requirements and help expand the understanding of energy efficiency potential and best practices in this relatively new sector. The Central California Rural REN's EM&V considerations for its program portfolio include data collection to inform CPUC evaluation activities and support internal program performance tracking and continuous improvement.

#### *ALIGNMENT WITH LEGISLATIVE AND CPUC REQUIREMENTS AND RELEVANT ACTION PLANS*

The Central California Rural REN's Business Plan strategies and outcomes align with CPUC regulatory requirements, applicable legislation, and the various action plans that guide implementation of California's energy policies, as summarized in the following paragraphs.

## CPUC REQUIREMENTS

The Central California Rural REN's Business Plan is offered as a formal proposal to form a REN. CPUC policies allow RENs the flexibility to adapt innovative program design and deliver to serve identified gaps in IOU program portfolios that provide significant value to the ratepayer, albeit not one that is not solely captured within the resource acquisition program segment. RENs provide an appropriate and viable vehicle to serve those who would not be served otherwise due to cost-effectiveness requirements, while filling programmatic gaps and acting as incubators for new, innovative, and effective program design that can be scaled and replicated throughout the state.

The Central California Rural REN proposal to form a REN is consistent with the CPUC requirements associated with forming a new REN. The CPUC, in D.19-12-021, reconfirmed, with adjustments, the three criteria by which a new REN would be considered:

- Activities that utility or community choice aggregator (CCA) program administrators cannot or do not intend to undertake.
- 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.
- Activities serving hard-to-reach markets, regardless of whether there is another utility or CCA program that may overlap.<sup>49</sup>

RENs are uniquely positioned to advance regionalized innovative program designs that create an economy of scale. The Central California Rural REN will be an important energy efficiency delivery vehicle for years to come. The main objectives, strategies, and outcomes of the Central California Rural REN align well with important legislative and CPUC requirements including the Central California Rural REN's focus to:

- Reduce energy use and GHG emissions in rural California
- Increase rural hard-to-reach access to energy efficiency programs and policies
- Promote innovative programs that respond to the needs of the rural customer

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<sup>49</sup> D. 19-12-021, OP 4. "To be approved by the Commission, a regional energy network business plan must propose activities that meet at least one of the following criteria: (a) Activities that utility or community choice aggregator (CCA) program administrators cannot or do not intend to undertake. (b) 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. (c) Activities serving hard-to-reach markets, whether or not there is another utility or CCA program that may overlap."

- Cultivate locally trained workforces that meet the needs of the rural, hard-to-reach, underserved, and disadvantaged communities
- Build long-term career opportunities in the energy efficiency and clean energy sector for rural Californians.

The Business Plan identifies existing gaps and minimal services currently offered in these rural communities. The Central California Rural REN will complement existing offerings by directly connecting programs with rural customers for a broader geographic reach and focusing on serving hard-to-reach markets throughout the Central California Rural REN regions.

The Central California Rural REN is borne from the local communities it will serve. These communities are represented by the long-standing Rural HTR Working Group that has advocated, in CPUC energy efficiency proceedings, for equal access to energy-efficiency programs services across California's rural spaces. As preferred by the CPUC, the Central California Rural REN will collaborate and coordinate with portfolio administrators and program implementers to serve the best interests of customers.<sup>50</sup> The Central California Rural REN will help PAs and implementers more effectively serve geographically hard-to-reach rural customers while providing locally delivered programs tailored to better serve the needs of hard-to-reach customers. Such programs include training and providing jobs for local workers to support Central California Rural REN program delivery.

To gain feedback from PAs in overlapping service territories', and other stakeholders, the original Rural REN conducted the following:

- Met with SCE, SoCalGas, PG&E, SoCalREN and 3CREN to discuss the proposed Rural REN and ways to ensure coordination in shared regions.
- Received an individual "letter of commitment" from every portfolio administrator that has overlapping operation in the same geographic area as the Rural REN as presented in this Business Plan.
- Received "letters of support" from various local governments and community organizations for the creation of the new Rural REN.
- Regularly participated in CAEECC and its various Working Group meetings

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<sup>50</sup> Id, p. 26. "Coordination and cooperation is in the interest of all program administrators and/or implementers, as well as the Commission and the customers being served."

- Presented initial plan for the Rural REN and the Draft Business Plan to the Full CAEECC on February 16, 2022.
- Responded to feedback from CAEECC stakeholders which is reflected in the Business Plan.
- Coordinated with CPUC Energy Division Staff to present the initial proposed Rural REN and discuss the Business Plan submittal.

A summary of compliance with the CPUC's REN requirements is shown in Table 23.

## CPUC Compliance Requirements

No.	Compliance Directive	Business Plan Section/Compliance Documentation
1	2. A proposal for a new regional energy network (REN) may be brought to the Commission at any time via a motion in the open energy efficiency rulemaking. A proposed REN is required to represent more than one local government entity and must present its business plan proposal to at least one meeting of the California Energy Efficiency Coordinating Committee (CAEECC) prior to filing it with the Commission. The REN motion to the Commission must also contain:	Executive Summary  Rural REN CAEECC presentation included in Appendix
2	a) A description of its new and unique value to contribute to California's energy, climate, and/or equity goals.	Executive Summary
3	(b) A description of its proposed governance structure.	Executive Summary
4	(c) A "letter of commitment to cooperate" from each existing program administrator with whom the new REN's proposed activities will overlap.	Appendix
5	(d) A written summary of feedback received from the CAEECC meeting and any other stakeholder input, along with the response or changes that were made as a result of the input.	Exhibit 02, Section v.6
6	(e) A proposed set of energy savings targets.	Exhibit 02, Section a.iii
7	(f) A proposed set of goals and metrics.	Exhibit 02, Section c.
8	(g) An estimate of benefits and costs according to the Total Resource Cost and Program Administrator Cost tests.	Exhibit 01, Section b.
9	3. All regional energy networks, once approved by the Commission, shall negotiate and file bilateral Joint Cooperation Memorandums, as defined in Decision 18-05-041, Ordering Paragraph 38, annually, for any activities that overlap with the activities of utility program administrators, community choice aggregators, and other regional energy networks.	Joint Cooperation Memorandums with other PAs serving the Central California Rural REN territory will be negotiated and filed after CPUC approval of Central California Rural REN's Business plan
10	4. To be approved by the Commission, a regional energy network business plan must propose activities that meet at least one of the following criteria:	Central California Rural REN's Business Plan proposes activities that meet each of the required criteria
11	(a) Activities that utility or community choice aggregator (CCA) program administrators cannot or do not intend to undertake.	Residential sector strategy includes direct, in person outreach to residential customers and energy coach service-see Program Card
12	(b) 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.	Residential strategy includes pilot scale deployment of virtual audits based on Net Zero-Carbon and Net Zero-Energy-see Program Card
13	(c) Activities serving hard-to-reach markets, whether or not there is another utility or CCA program that may overlap.	All of Central California Rural REN's activities serve hard-to-reach markets, disadvantaged communities, and underserved rural customers. See Business Plan Exhibit 1 and Exhibit 2, and Program Cards

TABLE 23



The Central California Rural REN will comply with all applicable Commission policies and directives. Recent CPUC decisions have reset prior CPUC policies, which directly reshape how portfolio administrators will design and deliver their energy efficiency portfolios. Recognizing CPUC's other energy efficiency policies objectives, the Commission "reduce[d] the conflict between cost-effectiveness and other equally or more important policy objectives such as equity and support for the energy efficiency market." The CPUC's new approach allows the Central California Rural REN the opportunity to focus efforts on addressing inequities in the program availability facing California's rural customers.

## LEGISLATION

*SB 100: Calls for utilities to procure 60 percent renewable energy by 2030 and 100 percent carbon-free energy by 2045, and to double the energy efficiency of existing buildings.* The goal to double energy efficiency for existing buildings will be a substantial lift and require coordination and collaboration across the Central California Rural REN implementing agencies and PAs in California's rural communities. Central California Rural REN's programs will increase adoption of energy efficiency in rural communities and reduce carbon emissions through energy savings and implementation of decarbonization measures such as electric heat pumps and cooking appliances.

*Assembly Bill (AB) 1482, SB 246, SB 379, AB 2800: Call for preparation of state climate adaptation strategy, establishing the Governor's Office of Planning and Research (OPR) Integrated Climate Adaptation and Resiliency Program, requiring local governments to include adaptation and resiliency strategies in general plans, and requiring state agencies to account for climate change when planning new infrastructure, respectively.* The Central California Rural REN will help rural customers facing immediate impacts due to climate change adopt higher levels of energy efficiency and emission reduction through various energy efficiency solutions.

*AB 841: Authorizes a one-time redirection of unspent energy efficiency funds from IOUs to schools. Programs would be designed to upgrade heating ventilation and air conditioning (HVAC) systems, increase energy efficiency, and address potential lead in water fixtures.* The Central California Rural REN Public Sector initiatives align well with this new law. Some of the Central California Rural REN Implementing Agencies are

already supporting their schools in this effort. The Central California Rural REN will look to build an approach to support this effort either directly or in coordination with PAs.

*AB 32/SB 32 / AB1279, AB 32, SB 32, and AB1279: seek substantial reductions in carbon emissions. with mandates for the reduction of GHG gas emissions to 40 percent below the 1990 levels by 2030, 85% by 2045, and a mandate to also reach carbon neutrality by 2045.* Central California Rural REN's programs provide GHG awareness and mitigation strategies as part of its energy efficiency message, and promote decarbonization measures such as electric heat pumps, water heating and appliances.

*SB 350-Clean Energy and Pollution Reduction Act of 2015: Increase energy efficiency by 50 percent in existing buildings by 2030 and focus on addressing the needs of disadvantaged communities more effectively in accessing energy efficiency and solar resources and workforce development.* All Central California Rural REN's programs contribute to increased adoption of energy efficiency and explicitly targets the 398 census tract level disadvantaged communities within its service territory to provide access to, and assistance with, implementation of energy efficiency and solar resources. Also provided is workforce development training that will increase energy-related skills of the local workforce and create new clean energy careers in disadvantaged communities.

*SB 1414: Requires increased code compliance and requirement for confirmation of appropriate permits for installation of new HVAC and heat pumps systems.* The Central California Rural REN incorporates these requirements into its Workforce Education & Training and Codes and Standards programs and work with local public sector customers (building departments) to establish successful approaches to implement this across the regions.

## ACTION PLANS

ENVIRONMENTAL AND SOCIAL JUSTICE ACTION (ESJ) PLAN: The CPUC's puts forth its vision to advance equity in its programs and policies for ESJ communities. The CPUC defines environmental and social justice as follows:<sup>51</sup>

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<sup>51</sup> California codified Environmental Justice in GOV § 65040.12: "...the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation, and enforcement of environmental laws, regulations, and policies."

Environmental and social justice seeks to come to terms with, and remedy, a history of unfair treatment of communities, predominantly communities of people of color and/or low-income residents. These communities have been subjected to disproportionate impacts from one or more environmental hazards, socio-economic burdens, or both. Residents have been excluded in policy setting or decision-making processes and have lacked protections and benefits afforded to other communities by the implementation of environmental and other regulations, such as those enacted to control polluting activities

Central California Rural REN's focus and highest priority objective is to provide energy efficiency services to underserved and hard-to-reach rural communities. Appropriately, 70% of our total proposed budget is allocated to the Equity segment.

For the Central California Rural REN, Equity is more than a segment, it is imbued into our governance and decision making. The Central California Rural REN Equity and ESJ Advisory Committee will provide input and recommendations regarding opportunities to incorporate and enhance equity and diversity of the organization and its programs. This advisory group will be formed during the startup phase of the Central California Rural REN in 2024 and will be comprised of champions of diversity, equity and inclusion from local governments, community-based organizations, schools/colleges, and other organizations within our communities.

SENATE BILL (SB) 350 SUPPORTING PLANS: The Central California Rural REN has considered the many plans that have been developed to better understand how to achieve the bold goals set forth in SB350. The Central California Rural REN is particularly attuned to those plans that address barriers that impact low-income communities, including the California Energy Commission "SB 350 Low-Income Barriers Study Recommendations." The Central California Rural REN has considered these plans in the development of this plan and will continue to look for ways to integrate recommendations into program delivery.

EXISTING BUILDINGS ENERGY EFFICIENCY (EBEE) ACTION PLAN: The EBEE Action Plan provides detailed strategies and tactics for increasing energy efficiency in all existing buildings, including all residential buildings. The EBEE Action Plan outlines a series of priorities for local government leadership in energy efficiency, codes, and workforce that have been considered and incorporated when appropriate into this Business Plan.

CALIFORNIA ENERGY EFFICIENCY STRATEGIC PLAN (CEESP) AND THE BIG BOLD GOALS: The CPUC's 2011 CEESP set forth a framework to make energy efficiency a way of life in California by refocusing ratepayer-funded energy efficiency programs on achieving long-term savings through structural changes in the way Californians use energy. All four of the Central California Rural REN Implementing Agencies received CEESP funding through their former LGPs and were able to support the needs of their local governments through the creation of benchmarking policies, Energy Action Plans, Climate Action Plans and other CEESP initiatives. The Central California Rural REN relies on the CEESP to guide its vision and goals across its portfolio to support the achievement of the Plan's long-term goals.

### ANNUAL PORTFOLIO BUDGETS

Table 24 below shows proposed annual budgets, savings, cost effectiveness and TSB by segment, by year, for 2024 – 2031. Additional budget tables are provided in the “Exhibit Four: Central California Rural REN Responses, Pursuant To Energy Division Templates.”

*Central California Rural REN Proposed Annual Budgets, Savings, Cost Effectiveness, and TSB for 2024-2031*

Year	Segment	Requested Budget	TSB	TRC	PAC	kWh	kW	Therms
2024	Resource Acquisition	63,940	-	-	-	-	-	-
	Market Support	-	-	-	-	-	-	-
	Equity	2,164,460	-	-	-	-	-	-
	Codes & Standards	584,400						
	EM&V	117,200						
	Total Portfolio	2,930,000	-	-	-	-	-	-
2025	Resource Acquisition	2,457,927	2,534,596	1.01	1.03	(1,412,385)	13.19	225,430
	Market Support	-	-	-	-	-	-	-
	Equity	7,234,760	-	-	-	-	-	-
	Codes & Standards	792,000						
	EM&V	436,864						
	Total Portfolio	10,921,551	2,534,596	0.30	0.30	(1,412,385)	13.19	225,430
2026	Resource Acquisition	2,448,878	2,544,594	1.02	1.05	(1,180,312)	13.27	188,895
	Market Support	-	-	-	-	-	-	-
	Equity	7,551,408	-	-	-	-	-	-
	Codes & Standards	787,730						
	EM&V	449,501						
	Total Portfolio	11,237,517	2,544,594	.24	.25	(1,180,312)	13.27	188,895
2027	Resource Acquisition	2,438,223	2,574,236	1.03	1.06	(1,124,906)	13.73	179,444
	Market Support	-	-	-	-	-	-	-
	Equity	7,576,977	-	-	-	-	-	-
	Codes & Standards	784,733						
	EM&V	449,999						
	Total Portfolio	11,249,932	2,574,236	.25	.25	(1,124,906)	13.73	179,444
2028	Resource Acquisition	-	-	-	-	-	-	-
	Market Support	-	-	-	-	-	-	-
	Equity	-	-	-	-	-	-	-
	Codes & Standards	-						
	EM&V	-						
	Total Portfolio	-	-	-	-	-	-	-
2029	Resource Acquisition	-	-	-	-	-	-	-
	Market Support	-	-	-	-	-	-	-
	Equity	-	-	-	-	-	-	-
	Codes & Standards	-						
	EM&V	-						
	Total Portfolio	-	-	-	-	-	-	-
2030	Resource Acquisition	-	-	-	-	-	-	-
	Market Support	-	-	-	-	-	-	-
	Equity	-	-	-	-	-	-	-
	Codes & Standards	-						
	EM&V	-						
	Total Portfolio	-	-	-	-	-	-	-
2031	Resource Acquisition	-	-	-	-	-	-	-
	Market Support	-	-	-	-	-	-	-
	Equity	-	-	-	-	-	-	-
	Codes & Standards	-						
	EM&V	-						
	Total Portfolio	-	-	-	-	-	-	-
Total		36,339,000	7,635,426	0.24	0.25	(3,717,603)	40	593,770

TABLE 24

## RECCOMENDATIONS FOR NEW OR MODIFIED EE POLICY

### *EQUITY-QUALIFIED DEFINITION TO INCLUDE RURAL UNDERSERVED CUSTOMERS*

The Central California Rural REN agrees with the CPUC that residential customers and small businesses located in rural areas do not have equal access to energy efficiency programs. The Central California Rural REN believes this logically extends to all customers located in rural areas. As described throughout this Business Plan, energy efficiency program participation by customers in rural areas is lower than in non-rural areas. Since about 20% of California's population is in rural areas, policy changes are needed to ensure this underserved population is better served. The Central California Rural REN is a step in the right direction towards equity, but more is needed. The Central California Rural REN recommends the CPUC revise its hard-to-reach definition to recognize any customer located in a rural area as geographically hard-to-reach. The Central California Rural REN also requests that the geographical underserved customer characteristic be enough to consider the customer as hard-to-reach without the need for an additional characteristic such as customer size, number of employees, language spoken, and other criteria.<sup>52</sup> This will enable PAs to apply higher-net-gross ratios in their TSB and cost effectiveness calculations reflecting greater ratepayer benefits for energy savings achieved by rural customers.

### *ACCESS TO CUSTOMER DATA BY NON-IOU PROGRAM ADMINISTRATORS*

To be more effective program administrators, RENs need customer data to design, implement and evaluate their program portfolios. Examples of data needs include energy consumption interval data to identify energy efficiency opportunities and to use NMEC performance-based energy savings approaches, customer program participation records, customers using electric water heating, master metered multifamily facilities, aggregated meter data for individually metered multifamily facilities, customers who have rooftop solar and battery storage, customer locations on circuits or areas that would be candidates for high TSB load reductions, customers located in target marketing regions and many other purposes related to marketing and outreach. Understanding the

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<sup>52</sup> D.18-05-041 FOF14, "Those customers who do not have easy access to program information or generally do not participate in energy efficiency programs due to a combination of language, business size, geographic, and lease (split incentive) barriers"

IOUs are limited by data privacy laws,<sup>53 54</sup> the Central California Rural REN asks the CPUC to require IOUs provide customer information to REN PAs for specific purposes of designing, implementing, and evaluating their energy efficiency portfolios.

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<sup>53</sup> California Consumer Privacy Act of 2018 in CIV § 1798.100-1798.199.100

<sup>54</sup> D. 11-07-056, COL 13 “Holding covered entities responsible for meeting the following requirements pertaining to the disclosure of the purposes for which information is collected, used, stored or disclosed is consistent with SB 1476, relevant provisions of the Pub. Util. Code and past Commission policies to protect privacy...”



## EXHIBIT TWO: 2024-2027 PORTFOLIO PLAN

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### PORTFOLIO SUMMARY

The Central California Rural REN has created a portfolio of programs to achieve our main goals, outcomes and vision statement, as summarized in Table 25 below, and described in our Exhibit One: Strategic Business Plan document. The portfolio addresses the fact that geographically remote rural energy users are not as well served by energy efficiency programs as those in closer proximity to metropolitan centers, but also specifically focuses on furthering the CPUC's Environmental and Social Justice Action Plan<sup>55</sup> policies and associated gaps in service for this largely underserved, hard-to-reach, and disadvantaged customer base.

#### Central California Rural REN Vision Statement

The Central California Rural Regional Energy Network will support an equitable and affordable clean energy transition for underserved communities. By leveraging regional collaboration, trusted local relationships, and promoting pragmatic responses to community needs, the Central California Rural Regional Energy Network will support communities that have historically not participated in energy efficiency programs.

#### Central California Rural REN Proposed Outcomes

Outcome 1: Hard-to-reach, disadvantaged and underserved rural customers are provided the same level of services and support of CPUC energy programs as their counterparts in or near metropolitan areas, and are empowered to take action to better manage their energy use and cost through increased awareness, support resources, and access to financing to improve their homes and businesses.

Outcome 2: Energy consumption, energy cost and GHG emissions are reduced across the region, contributing to California's decarbonization and energy efficiency goals.

Outcome 3: A trained, local workforce is employed in well-paying jobs that provide energy services to rural communities to enable energy and cost savings, and GHG emissions reductions.

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<sup>55</sup> CPUC Environmental & Social Justice Action Plan, Version 2.0 Draft (ESJ Action Plan), available at <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf>

## KEY METRICS AND OUTCOMES

### CENTRAL CALIFORNIA RURAL REN PORTFOLIO ALIGNMENT WITH GOALS

Segment - Sector	G1: Provide EE Services to Rural HTR, Underserved and DAC Customers	G2: Reduce energy use and GHG emissions, maximize TSB	G3: Develop Local Workforce and Create Clean Energy Jobs
Equity - Finance	-The program is designed with equity as a primary objective - including micro-loans, low or no cost, easy qualifying / eligibility	-With this Finance programs SMB and residential customers will implement more EE projects and measures	-Low cost and easy to apply for loan programs will increase local spending on EE goods and services -Increased demand for EE products and services will create local jobs
Equity - WE&T	-WE&T programs prioritize underserved, HTR and DAC communities and individuals	-Availability of skilled workers helps increase implementation of energy efficiency measures	-WE&T directly develops a local skilled workforce -Local skilled workforce keeps EE spending local
Codes & Standards	-Code education and enforcement support provided to rural HTR building officials, with a focus on serving rural underserved, HTR and DAC communities	-More buildings will comply with energy codes, and as a result will use less energy and emit less GHG pollutants	-C&S training provided by the program increases the skills and value of building officials, trades and designers
Equity - Public	-Project development support is provided to local government and agencies serving rural HTR, DAC and underserved communities	-Local government and public agencies implement energy savings upgrades using technical services and financing	-Public facility operation staff are trained to understand and operate energy efficient systems and equipment
Equity - Residential	-Program focuses outreach and program participation to equity-targeted customers	-Outreach, Education, and Technical Support drive implementation of energy savings upgrades	-Increased demand for energy technologies and services supports the local trades
Resource Acquisition - Commercial	-EE services and incentives are delivered to HTR rural and equity-targeted customers from within their communities	-Commercial customers implement a mix of energy efficiency and GHG-reducing electrification measures	-Growth of local EE-related contracting and supplier businesses creates new job opportunities in rural regions -Rural EE-related contracting and supplier businesses are boosted by local increased demand for energy services and technologies

TABLE 25

## *NARRATIVE ON PORTFOLIO GOALS AND PORTFOLIO PERFORMANCE METRICS TO BE ACHIEVED IN FOUR YEARS*

Portfolio performance metrics and goals have been selected to ensure performance to goals, both near- and long-term, and to provide the highest degree of accountability to the CPUC and all California ratepayers. The Central California Rural REN's proposed set of metrics ensure performance and accountability at the program, sector, segment, and portfolio level, as summarized in Table 26 below. Portfolio performance metrics are aligned with Central California Rural REN's overarching goals of equity, energy savings, and building local workforce. Key metrics at the sector and segment level roll up to the portfolio level for reporting, but close management at the program/sector level ensures portfolio goals are achieved. Portfolio metrics for Resource Acquisition segment program have targets listed for the four-year cycle. Portfolio metrics for Equity and Codes and Standards segment programs indicate a target where one has been established or indicate that baselines and targets will be established once detailed program designs are complete, after CPUC approval of a new Central California Rural REN. This is also consistent with non-consensus recommendation Option 2 of the CAEECC Market Support and Equity Working Group Final Reports.<sup>56</sup>

The Central California Rural REN's proposed portfolio includes strategies and programs within all three segments, but appropriately focuses on the Equity segment because of the high percentage of hard-to-reach, underserved and disadvantaged customers in the region. Our selection of metrics reflects this mix of programs using existing metrics, CAEECC Equity and Market Support Working Group recommended metrics, and custom metrics tailored to the specific strategies and tactics within programs.

**Resource Acquisition Metrics** – In addition to the standard energy savings metrics used in the past, we've added Total System Benefits as the primary metric for our Resource Acquisition portfolio at the segment, sector and program level. Since all of the Central California Rural REN's programs target hard-to-reach, underserved and disadvantaged customers, equity metrics are also included in the Resource Acquisition segment program.

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<sup>56</sup> Equity Metrics Working Group. (2021, October). Report and Recommendations to the California Public Utilities Commission and the Energy Efficiency Program Administrators. California Energy Efficiency Coordinating Committee. [https://4930400d-24b5-474c-9a16-0109dd2d06d3.filesusr.com/ugd/849f65\\_422f2a5a35bb4bcbbabe50e7eccc6f2.docx?dn=Final%20EMWG%20Report\\_10.20.2021.docx](https://4930400d-24b5-474c-9a16-0109dd2d06d3.filesusr.com/ugd/849f65_422f2a5a35bb4bcbbabe50e7eccc6f2.docx?dn=Final%20EMWG%20Report_10.20.2021.docx)

Equity Metrics – The Central California Rural REN proposes using a tailored subset of the CAEECC EMWG recommended metrics for its Equity segment programs. The Central California Rural REN program in the Resource Acquisition segment also has Equity metrics, again because of the large population of hard-to-reach, underserved and/or disadvantaged customers and communities. Equity segment programs make approximately 70% of Central California Rural REN’s total portfolio budget so it will be important to ensure that our metrics and Equity-targeted customer definitions align with CAEECC/CPUC definitions that are expected to be refined after submittal of PA business plans.

*Summary of Portfolio Metrics Aligned with Goals*

Portfolio Metric	G1: Provide EE Services to Rural HTR, Underserved and DAC Customers	G2: Reduce energy use and GHG emissions	G3: Develop Local Workforce and Create Clean Energy Jobs
Number of Customers Receiving Central California Rural REN Services	✓		✓
Number and Percentage of Equity-Targeted Customers Receiving Services	✓	✓	✓
Estimated Energy savings and GHG reductions supported by Non-Resource Programs		✓	
Workers Trained in WE&T Programs	✓		✓
Construction-related jobs created through EE program expenditures	✓		✓
Total EE Expenditures in the local regions	✓		✓
Estimated Value of EE Projects	✓	✓	✓

TABLE 26

## PORTFOLIO PERFORMANCE METRICS

Table 27 below lists the Central California Rural REN's proposed portfolio-level performance metrics and indicators.

### Portfolio Level Metrics and Indicators

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
M	Total System Benefits (TSB), \$	-	\$2,534,596	\$2,544,594	\$2,574,236
I	CO2-equivalent of net annual kWh savings	Indicators			
I	First year annual kW gross				
M	First year annual kW net	-	13.19	13.27	13.73
I	First year annual kWh gross	Indicators			
M	First year annual kWh net	-	(1,412,385)	(1,180,312)	(1,124,906)
I	First year annual Therm gross	Indicators			
M	First year annual Therm net	-	225,430	188,895	179,444
I	Lifecycle ex-ante kW gross	Indicators			
I	Lifecycle ex-ante kW net				
I	Lifecycle ex-ante kWh gross				
I	Lifecycle ex-ante kWh net				
I	Lifecycle ex-ante Therm gross				
I	Lifecycle ex-ante Therm net				
M	% customer participants in Disadvantaged Communities	TBD based on further coordination with CPUC/CAEECC Equity Metrics WG. Programs will target 75% total Equity-targeted participation			
I	First year annual kW gross in Disadvantaged Communities	Indicators			
I	First year annual kW net in Disadvantaged Communities				
I	First year annual kWh gross in Disadvantaged Communities				
I	First year annual kWh net in Disadvantaged Communities				
I	First year annual Therm gross in Disadvantaged Communities				

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
I	First year annual Therm net in Disadvantaged Communities				
I	Lifecycle ex-ante kW gross in Disadvantaged Communities				
I	Lifecycle ex-ante kW net in Disadvantaged Communities				
I	Lifecycle ex-ante kWh gross in Disadvantaged Communities				
I	Lifecycle ex-ante kWh net in Disadvantaged Communities				
I	Lifecycle ex-ante Therm gross in Disadvantaged Communities				
I	Lifecycle ex-ante Therm net in Disadvantaged Communities				
M	% customer participants in hard-to-reach Markets	TBD based on further coordination with CPUC/CAEECC Equity Metrics WG. Programs will target 75% total Equity-targeted participation			
I	First year annual kW gross in Hard-to-Reach Markets			Indicators	
I	First year annual kW net in hard-to-reach Markets				
I	First year annual kWh gross in hard-to-reach Markets				
I	First year annual kWh net in Hard-to-Reach Markets				
I	First year annual Therm gross in hard-to-reach Markets				
I	First year annual Therm net in hard-to-reach Markets				
I	Lifecycle ex-ante kW gross in hard-to-reach Markets				
I	Lifecycle ex-ante kW net in hard-to-reach Markets				
I	Lifecycle ex-ante kWh gross in hard-to-reach Markets				
I	Lifecycle ex-ante kWh net in hard-to-reach Markets				
I	Lifecycle ex-ante Therm gross in hard-to-reach Markets				
I	Lifecycle ex-ante Therm net in hard-to-reach Markets				
M	% customer participants in Underserved Markets	TBD based on further coordination with CPUC/CAEECC Equity Metrics WG. Programs will target 75% total Equity-targeted participation			
I	First year annual kW gross in Underserved Markets	Indicators			
I	First year annual kW net in Underserved Markets				

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
I	First year annual kWh gross in Underserved Markets				
I	First year annual kWh net in Underserved Markets				
I	First year annual Therm gross in Underserved Markets				
I	First year annual Therm net in Underserved Markets				
I	Lifecycle ex-ante kW gross in Underserved Markets				
I	Lifecycle ex-ante kW net in Underserved Markets				
I	Lifecycle ex-ante kWh gross in Underserved Markets				
I	Lifecycle ex-ante kWh net in Underserved Markets				
I	Lifecycle ex-ante Therm gross in Underserved Markets				
I	Lifecycle ex-ante Therm net in Underserved Markets				
I	PAC Levelized Cost (\$/kW)				
I	PAC Levelized Cost (\$/kWh)				
I	PAC Levelized Cost (\$/therm)				
I	TRC Levelized Cost (\$/kW)				
I	TRC Levelized Cost (\$/kWh)				
I	TRC Levelized Cost (\$/therm)				
M	Total # of contractors/workers served by Equity Segment Programs	TBD based on further coordination with CPUC/CAEECC Equity Metrics WG. Programs will target 75% total Equity-targeted participation			
M, I	Total # and % of contractors and/or workers that are disadvantaged workers or otherwise underrepresented, who are directly involved in implementing Equity Segment programs				
M, I	Total # and % of companies/non-profits who are Diverse Business Enterprises or otherwise underrepresented with contracts to implement Equity Segment programs				



Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
I	Expected first-year bill savings in total \$ for equity-targeted program participants	Indicators			
I	GHG reductions (tons) - EquityAll				
I	GHG reductions (tons) - EquityDAC				
I	GHG reductions (tons) - EquityHTR				
I	GHG reductions (tons) - EquityUnderserved				
I	Total kWh savings - EquityAll				
I	Total kWh savings - EquityDAC				
I	Total kWh savings - EquityHTR				
I	Total kWh savings - EquityUnderserved				
I	Total kW savings - EquityAll				
I	Total kW savings - EquityDAC				
I	Total kW savings - EquityHTR				
I	Total kW savings - EquityUnderserved				
I	Total Therm savings - EquityAll				
I	Total Therm savings - EquityDAC				
I	Total Therm savings - EquityHTR				
I	Total Therm savings - EquityUnderserved				
I	Community engagement activities during program implementation				
I	Energy and climate benefits (monetized within TSB)				
I	Health – “non-energy benefits” in “counts of participants receiving this benefit” until we can monetize. Reporting at least one of: Indoor air quality, Outdoor air quality (e.g., reduction in emissions from gas combustion appliances that vent to nearby outdoor	Indicators			

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
	air), Reduction in interior contaminants/biologics, other				
I	Comfort - “non-energy benefits” in “counts of participants receiving this benefit” until we can monetize. Reporting at least one of: reduced drafts, quieter interior, managed interior temp, other				
I	Safety - “non-energy benefits” in “counts of participants receiving this benefit” until we can monetize. Reporting at least one of: improved safety of appliances, other				
I	Economic or other “non-energy benefits” (as proposed by the PAs or program) in dollars or “counts of participants receiving this benefit” until we can monetize				

TABLE 27

## PORTFOLIO STRATEGIES

### *STRATEGY FOR APPLICATION/USE OF VARIOUS AND NEW METHODS FOR SAVINGS FORECASTING AND QUANTIFICATION METHODS (E.G. NORMALIZED METERED ENERGY CONSUMPTION INCLUDING REQUIREMENTS IN PUBLIC UTILITIES CODE SECTION 25310 (C)(5))*

In its initial four-year portfolio, the Central California Rural REN will use the deemed methodology for savings forecasting and quantification. This is appropriate given the equity-focused small business incentive strategy of its Resource Acquisition program, and the limited past participation in energy efficiency programs within this customer sector in rural regions. Over time, the Central California Rural REN will explore the feasibility of using NMEC methods at either a site-or population-level to forecast and quantify energy savings and TSB.

## *STRATEGY FOR INCORPORATING LOW GLOBAL WARMING POTENTIAL (LOW-GWP) REFRIGERANTS IN THE PORTFOLIO*

Low GWP refrigerants will be incorporated in the portfolio as described below in Table 28.

### *Strategies for Incorporating Low GWP Refrigerants in the Portfolio*

Portfolio Sector/Program	Low GWP Refrigerant Strategy
Codes & Standards	Provide information to building code officials, contractors, and designers about CFC phase out and low GWP refrigerant benefits code requirements
Finance	Minimum technical requirements for financed equipment (such as HVAC heat pumps, HPWHs; Low GWP Refrigerant information incorporated in audit reports
Public	Low GWP Refrigerant information incorporated in audit reports
Residential	Low GWP Refrigerant information incorporated in audit reports and home assessments
Workforce Education & Training	Provide information to WET participants about CFC phase out and low GWP refrigerant benefits and code requirements
Commercial	Incorporate low GWP refrigerant specifications for installed equipment where appropriate

TABLE 28

## *NEW STRATEGIES FOR SUPPORTING INNOVATION*

The Central California Rural REN will incorporate strategies to spur innovation throughout its portfolio, consistent with our key business principles related to equity, customer focus, and collaboration, as well as our primary goals. Table 29 below describes these strategies.

### *Strategies for Spurring Innovation*

Innovation Channel/Opportunity	CCR REN Supporting Strategy
New, Diverse Business Entrants to EE Market	<ul style="list-style-type: none"> <li>Contracting opportunities with Central California Rural REN emphasize diversity, green economy</li> </ul>
Traditional Actors (Businesses) Moving into EE Market	<ul style="list-style-type: none"> <li>WET upskilling</li> <li>Build awareness of EE business model in other markets</li> <li>Contracting opportunities for EE program implementation scope</li> </ul>
Increase Adoption of New / Evolving GHG Reducing Technology	<ul style="list-style-type: none"> <li>Res Sector Audits and financing</li> <li>Collaborate with Statewide Emerging Technologies Program to deploy new GHG technologies at rural customer sites</li> <li>Leverage non-EE funding for Electrification and GHG RDD to test or deploy new GHG technologies at rural customer sites</li> </ul>

TABLE 29

### *STRATEGIES FOR MARKET INTERVENTION AND ENERGY EFFICIENCY ADOPTION*

The Central California Rural REN will deploy multiple strategies for market intervention and energy efficiency adoption. Strategies have been selected to address common barriers to energy efficiency adoption and tailored to the rural markets to be served within each sector. Strategies incorporate equity principles and needs throughout the portfolio. In future years, the portfolio strategies will increasingly emphasize equity, resilience, grid management and GHG reduction. Table 30 below summarizes barriers and intervention strategies by sector.

*Central California Rural REN Portfolio Market Intervention Strategies*

Sector / Program	Common Barrier Addressed	Intervention	Delivery Channels	Platforms / Methods	Future Enhancements
CC-Codes & Standards	-Understanding of codes -Public agency resources stretched too thin	-Training of building officials and design, construction teams -Energy Coaches to support code enforcement staff	-Direct to public staff, design and construction teams	-Education & Training -Energy Coaches	-Electrification technologies -Renewable integration -Grid/Load Management
CC-Finance	-First cost	-OBF Bridge Loans -Microloans -Electrification	-Direct to customers -Trade Allies -Energy Advisors	-Revolving loan fund -No/low interest -Flexible terms	-On bill repayment
CC-WE&T	-Availability of skilled trades	-Training for disadvantaged youth and upskilling for trade workers	-Community-based organizations -Third party training organizations	-Proven training methods and curriculum -Equity-targeted candidates	-Renewable DG training
Public	-Resources / Staffing	-Benchmarking -Audits -CIP integration -Project implementation support (EE, DR, EV charging)	-Energy Advisors	-Deemed, custom -Shared database/EMIS	-NMEC -Renewable DG and storage support
Residential	-First Cost -Hassle factor -Information	-Virtual and remote audits (EE, DR, EV charging) -Energy Advisor support -Financing	-Downstream -Trade Allies -Community Based Organizations	-Deemed, custom	-TOU rate management -Grid/Load Management -NMEC -Resilience measures
Commercial	- Lack of Information - first cost split incentive	- Energy audits - incentives	- Direct installation - Community support	- Deemed	- grid/TOU management - resilience measures

TABLE 30

## SUMMARY TABLES COVERING THE FOUR-YEAR BUDGET REQUEST ANNUAL BUDGET REQUEST OVER FOUR YEARS

The Central California Rural REN's annual budget request for the period 2024-2027 is shown in Table 31 below. The Central California Rural REN is requesting a four-year budget approval starting in 2024 in order to begin implementation in 2025.

*Annual Budget, 2024 - 2027*

Budget Category	2024	2025	2026	2027	Total
Administration	\$293,000	\$1,092,160	\$1,123,752	\$1,124,997	\$3,633,909
Marketing and Outreach	\$175,798	\$655,245	\$674,251	\$674,963	\$2,180,257
Direct Implementation - Non-Incentive	\$2,344,002	\$8,019,598	\$8,272,330	\$8,282,289	\$26,918,219
Direct Implementation - Incentive	-	\$717,684	\$717,682	\$717,684	\$2,153,051
EMV	\$117,200	\$436,864	\$449,501	\$449,999	\$1,453,564
Total	\$2,930,000	\$10,921,551	\$11,237,517	\$11,249,932	\$36,339,000

TABLE 31

**DISTRIBUTION OF EFFORT (BUDGET) ACROSS SEGMENTS AND SECTORS**

*Distribution of 2024-2027 Budgets by Sector and Segment*

Sector	Portfolio Segment			Total
	Resource Acquisition	Codes and Standards	Equity	
Commercial	\$6,945,902	\$0	\$0	\$6,945,902
Finance	\$0	\$0	\$607,500	\$607,500
WE&T	\$0	\$0	\$8,854,169	\$8,854,169
Codes & Standards	\$0	\$2,764,559	\$0	\$2,764,559
Public	\$0	\$0	\$1,169,210	\$1,169,210
Residential	\$0	\$0	\$12,363,750	\$12,363,750
EM&V	\$308,708	\$122,870	\$1,021,986	\$1,453,564
Portfolio Support	\$463,066	\$184,304	\$1,532,976	\$2,180,346
Total	\$7,717,676	\$3,071,733	\$25,549,591	\$36,339,000

TABLE 32

### CENTRAL CALIFORNIA RURAL REN 2024-2027 BUDGET ALLOCATION BY SEGMENT

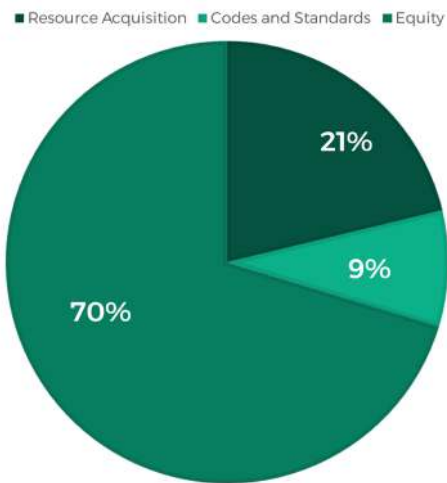


FIGURE 13

### CENTRAL CALIFORNIA RURAL REN 2024-2027 BUDGET ALLOCATION BY SECTOR

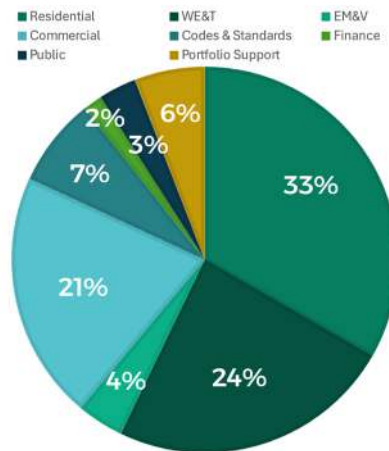


FIGURE 14

### FOR ALL SEGMENTS: PROJECTED SECTOR-LEVEL AND PORTFOLIO-LEVEL COST EFFECTIVENESS (TOTAL RESOURCE COST AND PROGRAM ADMINISTRATOR COST)

#### Portfolio, Segment and Sector Level Cost Effectiveness

Portfolio/Segment/Sector	TRC, no Admin	TRC, w Admin	PAC, no Admin	PAC, w/ Admin
Portfolio	2.36	0.24	2.53	0.25
Commercial	2.36	1.01	2.53	1.04
Codes & Standards Sector	0	0	0	0
Equity Segment	0	0	0	0
Workforce Education & Training Sector	0	0	0	0
Residential Sector	0	0	0	0
Public Sector	0	0	0	0
Finance Sector	0	0	0	0

TABLE 33



**RESOURCE ACQUISITION SEGMENT: FORECASTED PROGRAM, SECTOR, AND PORTFOLIO-LEVEL COST EFFECTIVENESS OVER FOUR-YEAR PERIOD**

*Resource Acquisition Segment Cost Effectiveness*

PORTFOLIO/SEGMENT/SECTOR	TRC, no Admin	TRC, w Admin	PAC, no Admin	PAC, w/ Admin
Segment: Resource Acquisition	2.36	1.01	2.53	1.04
Sector: Commercial	2.36	1.01	2.53	1.04
Program: Commercial Direct Install	2.36	1.01	2.53	1.04

TABLE 34

**FOR ALL SEGMENTS: FORECASTED ANNUAL PROGRAM, SECTOR, AND PORTFOLIO LEVEL TOTAL SYSTEM BENEFIT (TSB), KILOWATT-HOURS, KILOWATTS, THERMS, AND CO<sub>2</sub>E.**

*TSB and Energy Savings*

Portfolio/Segment/Sector	TSB, \$	kWh, net	kW, net	Therms, net	CO <sub>2</sub> e, tons
Portfolio	\$7,653,426	(3,717,604)	40	593,770	1,925
Resource Acquisition Segment	\$7,653,426	(3,717,604)	40	593,770	1,925
Commercial	\$7,653,426	(3,717,604)	40	593,770	1,925
Codes & Standards Sector	\$0	0	0	0	0
Equity Segment	\$0	0	0	0	0
WE&T Sector	\$0	0	0	0	0
Residential Sector	\$0	0	0	0	0
Public Sector	\$0	0	0	0	0
Finance Sector	\$0	0	0	0	0

TABLE 35

## INCLUDE COMPARISON OF PROJECTED TSB TO ADOPTED TSB GOALS

The total projected TSB of the Central California Rural REN's four-year (2024-2027) portfolio is \$7,653,426. In comparison to the adopted TSB goal for all of California, which is almost two billion dollars<sup>57</sup>, the contribution is small, due to its relatively small fraction of the total California energy efficiency budget, and because its portfolio appropriately focuses on providing much-needed non-resource equity services to rural hard-to-reach customers. While our resource acquisition segment program fills a gap in regions not well served by other resource acquisition programs, our non-resource programs support other programs in achieving TSB benefits. For example, our Residential Equity program will provide customers with actionable information about how to deal with TOU rates, why they help reduce GHG emissions, and what strategies and technologies can be used to help, including IOU residential resource acquisition programs. Our Finance program will help customers equip their homes and businesses to reduce GHG emissions and energy use.

## FORECAST METHODOLOGY

See attached files "Exhibit Four: Central California Rural REN Responses, Pursuant To Energy Division Templates."

## *PROGRAM MODIFICATIONS FROM 2023 PORTFOLIO DESCRIPTION OF PROGRAM MODIFICATIONS (E.G., CATEGORIZATION CHANGES OR SIGNIFICANT BUDGET SHIFTS), NEW PROGRAMS AND DISCONTINUATION OF EXISTING PROGRAMS FROM CURRENT PORTFOLIO*

As a new PA, the Central California Rural REN's proposed portfolio is all new as described in this Business Plan/Application, thus there are no program modifications to describe.

## *PORTFOLIO ADMINISTRATION VS PROGRAM IMPLEMENTATION COSTS*

The Central California Rural REN's proposed budget conforms to the CPUC-mandated 10% limit on Portfolio Administration costs. See attached files "Exhibit Four: Central California Rural REN Responses, Pursuant to Energy Division Templates" for a detailed showing and justification for each year of the Central California Rural REN's proposed four-year portfolio budget.

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<sup>57</sup> D.21-09-037, p.19-21

## SEGMENTATION STRATEGY

### *STRATEGIES DRIVING DISTRIBUTION OF BUDGET AMONG SEGMENTS AND ALIGNMENT WITH BROADER PORTFOLIO OBJECTIVES*

Table 36 and Figure 15 show the distribution of the 2024 – 2027 budget by segment. Strategies driving distribution of the budget and alignment with broader portfolio objectives are described below.

**Equity** – A large portion of the Central California Rural REN’s customer base falls into one or more of the CPUC’s three Equity-Targeted categories of hard-to-reach, underserved or disadvantaged. The Central California Rural REN’s vision and goals focus on bringing energy efficiency programs and services to this rural customer base. Approximately 70% of our total proposed budget is allocated to the Equity segment to fund outreach and education, incentives, financing and workforce education and training to rural communities.

**Resource Acquisition** – The Central California Rural REN is proposing one Resource Acquisition program serving the Commercial sector. While we’ve classified this program as primarily Resource Acquisition, it will target hard-to-reach, disadvantaged and underserved participants consistent with the Central California Rural REN’s equity objectives. Our proposed budget allocation for the Resource Acquisition segment is approximately 21%.

**Codes and Standards** – The Central California Rural REN is allocating approximately 9% of its portfolio budget to the Codes and Standards segment. This allocation aligns with the Central California Rural REN’s main objectives to increase the efficiency of buildings and to equip code enforcement agencies in rural hard-to-reach areas to comply with energy codes through our Codes and Standards program. The budget reflects the market size for the service over the four-year cycle.

### Allocation of Budget by Segment 2024-2027

Resource Acquisition	\$7,408,968	21%
Codes and Standards	\$2,948,863	9%
Equity	\$24,527,605	70%
Total w/o EM&V	\$34,885,436	
EM&V	\$1,453,564	
Total w/ EM&V	\$36,339,000	

TABLE 36

### Central California Rural REN 2024-2027 Budget Allocation by Segment

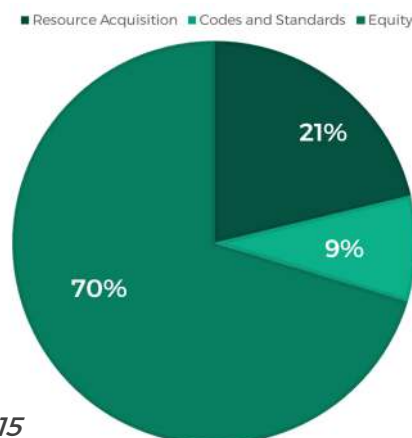


FIGURE 15

## RESOURCE ACQUISITION

### PRELIMINARY RESOURCE ACQUISITION BUDGET FOR 2024-2027, AND RATIONALE FOR THE DISTRIBUTION

The Resource Acquisition segment budget is \$7,408,968, which is 21% of the total Central California Rural REN proposed four-year budget. One Resource Acquisition program is offered in all regions of the Central California Rural REN territory. While the Resource Acquisition segment is not a primary emphasis for Central California Rural REN, commercial customers in Central California continue to need access to incentive programs for comprehensive retrofits because these are remote regions in California and thus are “end of the line” for other programs, third-party implementers, and trade allies.

#### Resource Acquisition Segment Budget

Sector	2024	2025	2026	2027	Total
Commercial	\$63,940	\$2,457,927	\$2,448,878	\$2,438,223	\$7,408,968
Total	\$63,940	\$2,457,927	\$2,448,878	\$2,438,223	\$7,408,968

TABLE 37

## RESOURCE ACQUISITION SEGMENT-STRATEGIES, GOALS, OUTCOMES

### *Resource Acquisition Segment Strategies, Goals, and Outcomes*

Strategy	Goals	Outcomes
Incentives for SMB electrification measures	Customers upgrade their homes and businesses	Small and medium business owners save energy and reduce GHG emissions, reduce their O&M costs and improve their bottom line

TABLE 38

## RESOURCE ACQUISITION PORTFOLIO AND SECTOR LEVEL METRICS

### *Resource Acquisition Segment Metrics – Commercial Sector*

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
M	Total System Benefit (TSB), \$	-	2,534,596	2,544,594	2,574,236
M	GHG Reduction, ex ante, net	-	725	605	595
M	kWh Savings, ex ante, net	-	(1,412,385)	(1,180,312)	(1,124,907)
M	KW Savings, ex ante, net	-	13	13	14
M	Therm Savings, ex ante, net	-	225,430	188,895	179,444

Table 39

## RESOURCE ACQUISITION SEGMENT COORDINATION

The Central California Rural REN will coordinate its Resource Acquisition segment strategies as necessary with IOUs, third-party programs and other RENs to avoid potential overlap/competition among programs, and wherever possible, will collaborate to increase customer participation in all programs in the region, to streamline delivery and enhance customer experience. As a member of the CAEECC Coordinating Committee and CAEECC Working Groups on Underserved, Composition, Diversity, Equity, and Inclusion, Market Support Metrics, Equity Metrics, and the EE Filing Process, the Central California Rural REN representatives will continue to work collaboratively with all Portfolio Administrators and stakeholders to improve coordination and effectiveness of California’s energy efficiency policies and programs. Sector level (and program level) coordination needs are discussed in the Sector Strategy section of this document.

## CODES AND STANDARDS

### *PRELIMINARY CODES AND STANDARDS BUDGET FOR 2024-2027, AND RATIONALE FOR THE DISTRIBUTION*

Table 40 shows Central California Rural REN's proposed Codes and Standards segment budget for 2024 - 2027. The proposed budget is \$2,764,559, which is 9% of the total Central California Rural REN proposed budget. The Codes and Standards program will provide support to the local rural building officials and building design and construction industry to aid in understanding and compliance with energy codes.

#### *Codes and Standards Segment Budget*

Sector	2024	2025	2026	2027	Total
Codes and Standards	\$584,400	\$792,000	\$787,730	\$784,733	\$2,948,863
Total	\$584,400	\$792,000	\$787,730	\$784,733	\$2,948,863

TABLE 40

### *CODES AND STANDARDS STRATEGIES, GOALS, AND OUTCOMES*

#### *Codes and Standards Segment Strategies, Goals, and Outcomes*

Strategy	Goals	Outcomes
Training for code enforcement officials	Increase code compliance	The majority of permits issued comply with energy codes
Training for building design and construction professionals	Increase understanding and support compliance of design and construction of projects	Increased energy code compliance of design and construction first time through, without rework
Technical support for code enforcement officials	Provide resources to support local code authorities review and approval of building design and construction	Increased accuracy and reduced turnaround time of energy code compliance checks

TABLE 41

## CODES AND STANDARDS PROJECTED ANNUAL PORTFOLIO AND SECTOR-LEVEL METRICS

### *Codes and Standards Segment - Portfolio and Sector Level Metrics*

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
M	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the total size (number of the target audience) by sector. (M) Number of training activities	TBD after award of contract to implementation consultant			
M	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the total size (number of the target audience) by sector. (M) Number of participants				
M	Increase in code compliance knowledge pre/post training				
M	The percentage increase in closed permits for building projects triggering energy code compliance within participating jurisdictions				
I	Number and percent of jurisdictions with staff participating in an Energy Policy Forum				
I	Number and percent of jurisdictions with staff participating in an Energy Policy Forum				
I	Number and percent of jurisdictions receiving Energy Policy technical assistance.				
I	Number and percent of jurisdictions receiving Energy Policy technical assistance.				
I	Buildings receiving enhanced code compliance support and delivering compliance data to program evaluators				

TABLE 42



## CODES AND STANDARDS SEGMENT COORDINATION

The Central California Rural REN will coordinate its Codes and Standards segment strategies as necessary with IOUs, third-party programs or other RENs to avoid potential overlap/competition among programs, and wherever possible, will collaborate to increase participation in all programs in the region to streamline delivery and enhance the customer experience. As a member of the CAEECC Coordinating Committee and CAEECC Working Groups on Underserved, Composition, Diversity, Equity, and Inclusion, Market Support Metrics, Equity Metrics, Market Transformation, and the EE Filing Process, the Central California Rural REN representatives will continue to work collaboratively with all Portfolio Administrators and stakeholders to improve coordination and effectiveness of California's energy efficiency policies and programs. Sector level (and program level) coordination needs are discussed in the Sector Strategy section of this document.

## CODES AND STANDARDS SEGMENT INTERACTION WITH MARKET TRANSFORMATION ACTIVITIES

When specific activities or Market Transformation Initiatives of the CPUC's Market Transformation program are underway, the Central California Rural REN will be prepared to participate in their planning and operation to ensure coordination. We anticipate there may be coordination opportunities in electrification strategies, codes and standards, workforce development, and NMEC applications.

## EQUITY

### *EQUITY SEGMENT BUDGET FOR 2024-2027, AND RATIONALE FOR THE DISTRIBUTION*

The proposed Equity segment budget is shown in Table 43. Consistent with the Central California Rural REN's Vision and primary goals, providing EE services to Equity-targeted customers and communities is our highest priority and thus, budget focus. A large portion of the Central California Rural REN's customer base falls into one or more of the CPUC's three Equity-Targeted categories of hard-to-reach, underserved or disadvantaged. Appropriately, 70% of our total proposed budget is allocated to the Equity segment to fund outreach and education, incentives, financing and workforce education and training to rural communities.

### Equity Segment Budget

Sector	2024	2025	2026	2027	Total
Residential	\$1,141,875	\$3,745,125	\$3,736,125	\$3,740,625	\$12,363,750
Public	\$266,960	\$298,125	\$299,700	\$304,425	\$1,169,210
CC-Finance	-	-	\$350,851	\$350,783	\$701,634
CC-WE&T	\$755,625	\$3,191,510	\$3,164,732	\$3,181,144	\$10,293,011
Total	\$2,164,460	\$7,234,760	\$7,551,408	\$7,576,977	\$24,527,605

TABLE 43

## EQUITY SEGMENT STRATEGIES, GOALS, AND OUTCOMES

### Equity Strategies, Goals, and Outcomes:

Strategy	Goals	Outcomes
P1: Residential Outreach and Education	Rural HTR and equity-targeted customers understand energy usage information and act on energy saving recommendations	Residents and businesses implement energy savings upgrades in IOU Resource Acquisition programs
P2: Financing for Energy Upgrades	Rural HTR and equity-targeted customers use financing to pay for energy upgrades in their homes and businesses	Energy and GHG emissions are reduced Rural communities become more resilient
P3: Workforce Training	Equity-targeted rural youth and disadvantaged workers learn clean energy job skills	Capacity for energy improvements is increased in the region
P4: Public Agency EE Support	Rural public agencies have the technical information and support to undertake energy efficiency projects, including support for financing and incentives needed to do EE projects	Public agencies in rural areas implement EE projects, save energy and reduce GHG emissions, reduce O&M costs, and provide showcase opportunities for the local community

TABLE 44

## EQUITY SEGMENT PORTFOLIO- AND SECTOR-LEVEL METRICS

### *Equity Segment - Residential Sector Metrics*

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
M	Percent of total residential (SF or MF unit) equity-targeted households (HHs) served by the Equity programs	-	70	70	70
I	Expected first-year bill savings in total \$ for equity-targeted program participants (metric)	Indicator only			
M	In person outreach events conducted	-	65	75	75
M	Digital media offerings	-	40	40	40
M	EE kits distributed	-	3100	3100	3100
M	In-home energy audits conducted	-	1000	1150	1150
M	Online energy audits conducted	-	300	500	500

TABLE 45

### *Equity Segment - Public Sector Metrics*

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
M	Equity-targeted public facilities and equipment or community projects served by the Equity programs	-	15	20	20
I	Expected first-year bill savings in total \$ for equity-targeted program participants (metric)	Track Only			
M	Public Agencies Participating in Program	-	20	25	25
M	ERRs and Benchmarking Reports Completed/Delivered	-	15	20	25
M	Public Agencies Utilizing Database	-	10	15	20
M	Public Buildings benchmarked	-	20	40	40
M	Energy Audits Conducted Annually	-	20	25	25
M	Projects referred to other programs	-	20	20	30
I	kWh savings referred to other programs (or implemented)	Track Only			
I	kW savings referred to other programs (or implemented)				

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
I	Therm savings referred to other programs (or implemented)				
I	GHG reductions referred to other programs (or implemented)				

TABLE 46

*Equity Segment - Workforce, Education and Training Sector Metrics*

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
M	Number of collaborations by Business Plan sector to jointly develop or share training materials or resources.	TBD after award of WE&T implementation contracts			
M	Number of participants by sector				
M	Percent of participation relative to eligible target population for curriculum				
M	Percent of total WE&T training program participants that meet the definition of Disadvantaged Worker.				
M	Percent of incentive dollars spent on contracts with a demonstrated commitment to provide career pathways to Disadvantaged Workers				
M	Number Career & Workforce Readiness (CWR) participants who have been employed for 12 months after receiving the training				
I	Number of program participants (students) who meet the definition of Disadvantaged Workers	Track Only			
M	Number of CEA cohorts (90 hour) *	2	2	2	2
M	Number of CEA cohorts (120 hour)	2	2	2	2
M	Number of CEA participants	160	160	160	160
M	Number of Climate Career Energy Specialists employed	45	45	45	45
M	Number of Climate Career Offices opened	1	1	1	1

TABLE 47

*Equity Segment - Finance Sector Metrics*

Metric or Indicator	Metric/Indicator Description	2024	2025	2026	2027
I	Total projects completed/measures installed and dollar value of consolidated projects [1]	Track Only			
I	Differential of cost defrayed from customers (e.g., difference between comparable market rate products and program products).				
I	% of market participants aware of capital access opportunities for investments in energy efficient projects, products, and/or services (awareness)				
I	% of market participants knowledgeable about capital access opportunities for investments in energy efficient projects, products, and/or services (knowledge)				
I	% of market participants interested in leveraging capital access opportunities for investments in energy efficient projects, products, and/or services (attitude)				
I	% of market participants that were unable to take action due to access to capital or affordability of energy efficient projects, products, or services (behavior)				
M	Total # residential (SF or MF unit) equity-targeted households (HHs) served by the Equity programs	Metrics TBD after award of program design contract			
M	Total # equity-targeted public facilities and equipment or community projects served by the Equity programs				
M	Total # small and medium business (SMB) equity-targeted participants served by the Equity programs				
M	Total # of companies/non-profits served by the Equity Segment programs				
I	Expected first-year bill savings in total \$ for equity-targeted program participants	Track Only			
I	Number of project feasibility analyses performed by Energy Coach				
I	Number of loan applications submitted				
I	% of loans successfully repaid, on-time and in-full				

TABLE 48

## SEGMENT-SPECIFIC COORDINATION

The Central California Rural REN will coordinate its Equity segment strategies as necessary with IOUs, third-party programs or other RENs to avoid potential overlap/competition among programs, and wherever possible, will collaborate to increase equity-targeted customer participation in all programs in the region to streamline delivery and enhance the customer experience. As a member of the CAEECC Coordinating Committee and CAEECC Working Groups on Underserved, Composition, Diversity, Equity, and Inclusion, Market Support Metrics, Equity Metrics, and the EE Filing Process, the Central California Rural REN representatives will continue to work collaboratively with all Portfolio Administrators and stakeholders to improve coordination and effectiveness of California's energy efficiency policies and programs. Sector level (and program level) coordination needs are discussed in the Sector Strategy section of this document.

## SECTOR STRATEGY

### *STRATEGIES DRIVING DISTRIBUTION OF BUDGET AMONG SECTORS, AND ALIGNMENT WITH BROADER PORTFOLIO OBJECTIVES*

Sector budgets are established to achieve overall portfolio goals, which are in turn based on the needs of our rural customer base. Past program participation, equity factors, and current and planned IOU and other PA proposed program offerings in the region helped determine sector focus and level of effort needed. For example, the Central California Rural REN is not proposing to serve the Agriculture Sector because all three of the IOUs have large Resource Acquisition programs that will target the Ag Sector in regions served by Central California Rural REN.

### *DESCRIPTION OF SECTORS PROGRAM ADMINISTRATOR PROPOSES TO SERVE*

Table 49 shows the sectors the Central California Rural REN proposes to serve, and the regions where the sector programs will be offered. As shown in the table, not all sectors/programs will be offered in all three Central California Rural REN regions. Our flagship programs are Residential, Workforce Education and Training, and Finance because we believe we can have the biggest impact on individual customers and rural communities by providing support in the areas of energy burden, jobs, and financial resources.

*Reduce Energy Burden:* We help reduce energy burden by helping customers identify and implement ways to reduce energy consumption, which then creates a more robust pipeline of projects for Resource Programs.

*Increase Employment:* We create opportunities for climate adaptive careers, and we train and provide job placement. We can improve career prospects by offering climate adaptive career training; we can increase career opportunities by driving more project opportunities and sending a pipeline to IOU and third-party Resource Acquisition programs.

*Bring Capital for Energy Efficiency Investments:* We bring needed capital to our rural communities in the form of bridge financing and micro-lending for customers to adopt more comprehensive, costly energy efficiency and decarbonization measures.

The Codes and Standards sector is important because rural counties are notorious for lagging in code compliance, and as more customers migrate from urban and suburban areas to rural areas, new construction and home renovations will increase, placing additional burden on the demand for knowledgeable code enforcement officials and designers and builders. It is a challenge to achieve Title 24 compliance—we can speed up achievement of decarbonization and energy efficiency goals by taking local action to ensure rural communities aren't unprepared or left behind as they pursue these goals.

The Public program, offered in the AMBAG territory, fills a gap in service of PG&E's Local Government Partnership programs working in the region, and serves HTR local governments. Central California Rural REN will coordinate with these programs to ensure consistency.

The Commercial Resource Acquisition program fills gaps by serving underserved, hard-to-reach and disadvantaged customers in Central California.



### Central California Rural REN Sectors by Region

	Central Coast		San Joaquin Valley	Eastern Sierra
	AMBAG	SLO	SJVCEO	HSEF
Public	✓			
Codes & Standards	✓		✓	✓
Finance	✓	✓	✓	✓
Commercial	✓		✓	✓
WE&T	✓		✓	✓
Residential	✓		✓	✓

TABLE 49

### PRELIMINARY DISTRIBUTION OF BUDGET AMONG SECTORS FOR 2024-2027, AND RATIONALE FOR THE DISTRIBUTION

Table 50 and Figure 16 shows the distribution of budget among sectors for 2024 – 2027. Budgets were determined by a combination of factors including the needs and market opportunities within regions and the gaps in services of other PAs being filled as described in the previous sections.

### Distribution of 2024-2027 Budgets by Sector

Sector	Portfolio Segment			Total
	Resource Acquisition	Codes and Standards	Equity	
Commercial	\$6,945,902	\$0	\$0	\$6,945,902
Finance	\$0	\$0	\$607,500	\$607,500
WE&T	\$0	\$0	\$8,854,169	\$8,854,169
Codes & Standards	\$0	\$2,764,559	\$0	\$2,764,559
Public	\$0	\$0	\$1,169,210	\$1,169,210
Residential	\$0	\$0	\$12,363,750	\$12,363,750
EM&V	\$308,708	\$122,870	\$1,021,986	\$1,453,564
Portfolio Support	\$463,066	\$184,304	\$1,532,976	\$2,180,346
Total	\$7,717,676	\$3,071,733	\$25,549,591	\$36,339,000

TABLE 50

*Central California Rural REN 2024-2027  
Budget Allocation by Sector*

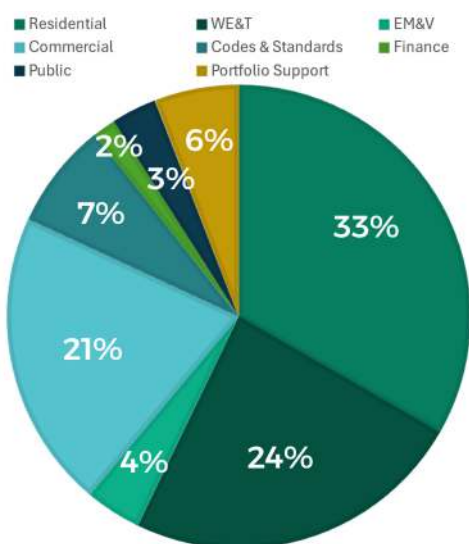


FIGURE 16

## AGRICULTURAL SECTOR

The Central California Rural REN's portfolio does not include specific Agricultural Sector programs, however the Finance and Workforce, Education and Training cross-cutting programs will be marketed and available for Agricultural businesses.

## COMMERCIAL SECTOR

The Central California Rural REN's Commercial Sector program will offer Energy Advisor services and financial incentives to commercial customers across central California. Regionally-tailored outreach and energy audits will provide specific, actionable recommendations for making energy related improvements to reduce energy consumption and will guide the customer toward available incentives and financing options offered by Central California Rural REN, electric and gas utility companies and third-party program implementers. Incentives will be offered for common energy efficiency measures and GHG reducing technologies such as heat pumps. EE measures will include a variety of items like controls, HVAC, and plug loads/appliances. Financing will be made available to enable customers to implement energy projects with no capital outlay. Finance offerings are described in the cross-cutting Finance Sector section of this business plan.

## COMMERCIAL SECTOR GOALS, OBJECTIVES, AND STRATEGIES

### *Commercial Sector Goals*

Goal	Strategy	Objective
G1-Increase customer awareness and knowledge of energy efficiency benefits, including GHG reduction strategies	-Provide basic energy efficiency information to raise awareness -Energy Coaches conduct surveys to identify actionable recommendations	Achieve program metric targets related to outreach and recommendations
G2-Increase customer implementation of energy efficiency measures	-Address first cost barrier by providing incentives and easy financing -Energy Coaches provide support during implementation to reduce hassle factor	Achieve kWh, kW, and Therm energy savings goals
G3-Increase depth of energy efficiency retrofits in small and medium businesses	-Leverage incentives from other sources, and encourage financing to pay for GHG reducing capital equipment such as HVAC and water heating heat pumps	Achieve electrification equipment sales metrics
G4-Increase participation of equity-targeted small and medium businesses	-Focus outreach to hard-to-reach, DAC and underserved SMBs, provide increased incentive levels	Achieve equity-targeted customer participation metrics

TABLE 51

## COMMERCIAL SECTOR COORDINATION

The Central California Rural REN's Commercial Sector program will coordinate with IOU, CEC, CPUC Energy Efficiency, Demand Response, Electrification and Market Transformation programs targeting small- and medium-commercial customers to leverage funding and services, especially in the area of decarbonization and EV charging station siting. The Central California Rural REN will coordinate closely with PG&Es planned third-party Micro and Small Business Equity Program.

## CATEGORIZATION BY SEGMENT

### *Commercial Categorization by Segment*

Sector	Program	Segment	Rationale
Commercial	SMB Incentives	Resource Acquisition	Primary focus of the program is to achieve energy and GHG reductions

TABLE 52

### PROGRAM DETAILS

Program Name: Central California Rural REN Commercial Resource Acquisition Program	
<p>Program ID: CCR-COM-001</p> <p>New / Existing: NEW</p> <p>Link to implementation plan if existing (see D.21-05-031): IP to be developed after CPUC approval of CCR REN Advice Letter and new IP template.</p>	
<p>Portfolio Segment:</p> <p>RESOURCE ACQUISITION</p>	<p>Implementation Party:</p> <p>Central California Rural REN</p>
<p>Applicable Sector:</p> <p>Commercial</p>	<p>Market Sub-Sector:</p> <p>Micro, Small, and Medium-Sized commercial customers</p>
<p>Sector Challenge: Energy efficiency resource acquisition programs in rural communities face the following challenges:</p> <ul style="list-style-type: none"> <li>-Geographic isolation: business density in rural areas is much lower than the California average</li> <li>-Lack of energy efficiency awareness</li> <li>-High first-cost of energy efficiency, especially for small businesses struggling to stay afloat during pandemic, wildfire impacts and record inflation</li> <li>-Low engagement by rural HTR businesses in energy efficiency programs that are perceived as more suited for urban/suburban residents</li> </ul>	<p>Sector Opportunity: With relatively low awareness and participation in EE programs comes an opportunity for a locally-based, regional approach to raise awareness and increase small business adoption of EE practices and measures. With customers in need of strategies for adapting to TOU rates and the market at an inflection point with regard to decarbonization strategies, the timing is ideal for a tailored resource acquisition program to drive new and deep energy savings in rural small businesses. High energy burden, extreme weather conditions, and high inflation will motivate business owners to seek out ways to</p>

<p>-Low cost effectiveness and high delivery cost of resource acquisition programs because of high cost to serve and lack of approved deemed measures suitable for small commercial customers.</p>	<p>reduce their operating cost and improve the safety and comfort of their facilities for customers and employees by taking advantage of low- and no-cost energy efficiency services.</p>
<p>Known Equity Concerns in the Selected Markets:</p> <p>A large portion of Central California Rural REN's commercial customers are located in disadvantaged and low-income communities and are hard-to-reach due to the combination of rural location, number of employees, and/or in leased spaces. Energy burdens are on average, much higher than the state average, and counterparts in urban/suburban areas. Small commercial customers in rural areas employ a higher portion of workers than larger customers, highlighting the importance of small commercial ratepayers to the economic health of rural communities.</p>	<p>Proposed Solutions to Equity Concerns:</p> <p>Central California Rural REN's Commercial Resource Acquisition program will focus its efforts on achieving a high percentage of participation from targeted equity customers. Outreach and messaging strategies will drive equity customers to implement energy efficiency upgrades to their businesses using incentives and direct install services. Central California Rural REN's cross-cutting Finance program will also support HTR businesses with bridge loans to supplement IOU OBF financing with no out-of-pocket cost to the business owner. 100% of participating businesses will be classified HTR.</p>
<p>Program Description:</p> <p>Central California Rural REN's Commercial Resource Acquisition program is a comprehensive EE and decarbonization program offering technical services, incentives, and direct installation of select measures all aimed at reducing energy usage, on-peak load and GHG emissions in rural micro, small and medium-sized businesses. The program will fill a gap in services to the Central California Rural REN service territory and those most in need of a customized local delivery offering. The program uses a comprehensive approach to increase adoption of EE, demand response, and decarbonization measures, while providing operating cost savings and added non-energy benefits of safety, resilience and occupant comfort for local businesses. While not categorized as an Equity segment program, all businesses served will be hard-to-reach and located in or near rural underserved communities. The program encourages use of financing to enable more costly comprehensive retrofits, including Central California Rural</p>	

REN's cross-cutting Finance program (CCR-FIN-001) which will offer bridge loans to supplement IOU On-Bill Financing programs.	
<p><b>Intervention Strategy:</b></p> <ul style="list-style-type: none"> <li>-Leverage CCR-RES-001 Residential Equity program marketing, education and outreach campaigns via digital (email, social media), direct mail, local print, radio and television media, community events, utilizing local elected officials, agency staff, Community-Based Organizations (CBOs), Faith-Based Organizations (FBOs) tailored regionally, and other Equity program services that can drive customers to the Commercial Resource Acquisition program</li> <li>-Deemed incentives for appliances, insulation, water heaters, heat pumps, duct sealing, pipe wrap, faucet aerators</li> <li>-Custom incentives for popular and cost-effective LED lighting measures</li> <li>-Direct installation of certain measures, with incentives high enough to cover 100% of the measure cost using trade allies who have been qualified and agree to Central California Rural REN pricing with zero or low customer co-pay.</li> </ul>	<p><b>Program Metrics:</b></p> <p>As a resource acquisition program with an equity emphasis, metrics include resource and non-resource measures, including:</p> <ul style="list-style-type: none"> <li>-Equity-targeted customer participation, percentage</li> <li>-Hard-to-reach customer participation</li> <li>-Underserved customer participation</li> <li>-Disadvantaged community customer participation</li> <li>-TSB: \$7,653,426</li> <li>-Net kWh: (3,717,604)</li> <li>-Net kW: 40</li> <li>-Net Therms: 593,770</li> <li>-CO2e, tons: 1,925</li> </ul> <p>Targets for each metric will be confirmed (or established after baseline determination) after CPUC approval of Central California Rural REN formation.</p>
<p><b>High-level description of delivery workforce including necessary scale and its risks:</b></p> <p>Delivery workforce will include staff of Central California Rural REN's partners as well as a contractor selected through a competitive procurement process. Local direct install contractors and market-based trade allies will be needed to meet customer demand for measures. Availability and scale of the workforce needed for successful implementation of the program will not present a risk.</p>	

Market Actors necessary for success: Local contractors, trade allies, wholesale suppliers, and retailers must be able to support the increase in demand for the promoted EE measures.	
Solicitation Strategy: Portions of the program may be outsourced, such as installation contractor services. Supplier diversity will be incorporated into Central California Rural REN's solicitation strategy.	Transition Plan:  Not applicable
Expected Program Life:  Rollout will begin in 2024 and continue through the eight year cycle and beyond, contingent on CPUC approval. Central California Rural REN will implement continuous improvements and refinements in program design, delivery strategies and tactics throughout the life of the program.	Short Term Plan  Launch program in 2024 and ramp up to full-scale implementation by 2025.
Cost Effectiveness TRC w/o admin: 2.36 TRC w/admin: 1.01 PAC w/o admin: 2.53 PAC w/admin: 1.04	Long Term Outlook EE fluency and measure adoption rates of rural commercial customers and energy savings in central California increase, and significant energy operating cost savings are realized, especially for equity-targeted small commercial customers.
Proposed Annual Budgets for 2024-2027: 2024: \$59,944 2025: \$2,304,303 2026: \$2,295,823 2027: \$2,285,832	Anticipated directional and scale changes in budget for years 2028-2031: Assuming budget approval by the CPUC, budgets are anticipated to increase over the last four years of the Business Plan period.
Implementation Plan: Implementation Plans for all Central California Rural REN programs will be developed after CPUC approval of the Central California Rural REN's Advice Letter and approval of the Implementation Plan Template.	

## CROSS-CUTTING SECTOR: CODES & STANDARDS

The Central California Rural REN's Codes and Standards program supports code enforcement agencies and better equips the building design and construction community to implement California's ambitious Building Energy Efficiency Standards (Title 24), helping make buildings more efficient, paving the way for zero net energy building stock, and reducing energy use and greenhouse gas emissions in rural California's most environmentally challenged regions.

### CODES AND STANDARDS GOALS, OBJECTIVES AND STRATEGIES

#### *Codes and Standards Sector Goals*

Goals	Strategy	Objective
G1-Increase code compliance	Training for code enforcement officials	Increased the percentage of projects that comply with codes
G2-Increase understanding and support compliance of design and construction of projects	Training for building design and construction professionals	Increase the percentage of design and construction projects that comply first time through, without rework
G3-Provide resources to support local code authorities review and approval of building design and construction	-Code coach - technical support for code enforcement officials	Reduced plan check and inspection turnaround time

TABLE 53

### CODES AND STANDARDS SECTOR COORDINATION

The Central California Rural REN's Codes and Standards program will coordinate with Statewide Codes and Standards program, and Statewide Residential and Non-Residential New Construction programs.



## CATEGORIZATION BY SEGMENT

### *Codes and Standards Categorization by Segment*

Sector	Program	Segment	Rationale
Codes and Standards	Compliance Support	Codes and Standards	The Codes & Standards program primarily supports the building design and construction industry to comply with energy codes

TABLE 54

### PROGRAM DETAILS

Program Name: Central California Rural REN Codes and Standards Program	
Program ID: CCR-C&S-01 New / Existing: NEW Link to implementation plan if existing (see D.21-05-031): IP to be developed after CPUC approval of CCR REN Advice Letter and new IP template.	
Portfolio Segment:  Codes and Standards	Implementation Party:  Central California Rural REN
Applicable Sector:  Codes and Standards	Market Sub-Sector:  Local Governments; All customer sectors/sub-sectors
Sector Challenge:  -Limited staff capacity and energy codes not always a priority in the building permitting and code compliance process  -Triennial Code Adoption Cycle leads to the need to inform, educate and enforce newly adopted codes and standards, on a regular basis	Sector Opportunity:  -For transformative standards to be consequential, they need to be implemented and enforced properly.  -Offering regional and climate-zone specific training and information will inform and engage rural building professionals on impactful energy saving tactics.  -Codes are a cost-effective way to transform a market, but to be meaningful, they have to be implemented properly and enforced.

<p>-Building professionals in rural areas lack access to consistent and regular training. More importantly, they often are not engaged<sup>58</sup></p> <p>-Energy code compliance can be inconsistent, as code enforcement occurs at the local municipality or county level. Many rural building departments are resource constrained.</p> <p>-Upcoming codes are transformational with storage and heat pumps<sup>59</sup></p> <p>-Limited HERS raters in rural areas<sup>60</sup></p>	<p>-There are 1,887,064 total housing units in the Central California Rural REN territory.<sup>61</sup> According to the US Census Bureau's 2022 American Community Survey Five Year Estimates, (2018-2022), 48.7% of the occupied housing units were built prior to 1979, with the likelihood that very few of those were built abiding by the newly adopted energy codes of 1978. Another 29.1% were built between 1980-1999, for a total of almost 80% of the Central California Rural REN region's housing are potentially candidates for energy efficient upgrades or retrofits.</p> <p>-Coordinate efforts regionally to engage in code cycle updates and adoption to ensure that regional characteristics are being considered in the broader adoption of codes.</p> <p>-Tool libraries- Provide energy measurement tools and new technologies for use and introduction to local communities (tools and induction stovetops)</p>
<p><b>Known Equity Concerns in the Selected Markets:</b></p> <p>In general, local governments in rural areas are hard-to-reach, and therefore not as well served by EE programs.</p>	<p><b>Proposed Solutions to Equity Concerns:</b></p> <p>Central California Rural REN's mission is to equitably serve hard-to-reach rural customers, with goals and metrics to ensure the needed focus and dedicated resources</p>

<sup>58</sup> Lui, Adeline, Energy Code Support: The Next Frontier for Residential New Construction Programs September 11, 2020, <https://www.aesp.org/blogpost/1264671/325906/Energy-Code-Support-The-Next-Frontier-for-Residential-New-Construction-Programs>

<sup>59</sup> Leathers, Kelly. "Streamlined Permitting Needed to Scale up California's Energy Storage Capacity." Center for Sustainable Energy, Center for Sustainable Energy, Jan. 2022, <https://energycenter.org/thought-leadership/blog/streamlined-permitting-needed-scale-californias-energy-storage-capacity>.

<sup>60</sup> DNV-GL, September 22, 2017 2014-16 HVAC Permit and Code Compliance Market Assessment for the CPUC

<sup>61</sup> State of California Department of Finance E-5 Population and Housing Estimates for Cities, Counties, and the State Retrieved from: <https://www.dof.ca.gov/forecasting/demographics/estimates/e-5/>

<p><b>Program Description:</b></p> <p>The Central California Rural REN Codes &amp; Standards (C&amp;S) program will provide rural building departments and building professionals with education and technical resources to increase comprehension and compliance in the California Building Energy Efficiency Code (Title 24) and escalate more rapid adoption of new standard technologies. The program is designed to bridge the gaps in current Investor-Owned Utility (IOU) and Statewide offerings, while leveraging those resources, and will serve geographically rural and hard-to-reach areas that have distinct characteristics and needs. The program's goal is to provide offerings that will help those regions reduce energy usage through improved building design and construction and greater code compliance and enforcement. Through this program, Central California Rural REN seeks to increase access and participation among local governments and local building professionals through a multidimensional approach which includes targeted training and professional continuing education opportunities, personalized code coaching, regional tool lending libraries, best practice guides and checklists, aggregated resources and policy support. The program will be implemented in all Central California Rural REN regions except San Luis Obispo County, where similar services are being provided through the 3C REN.</p>	
<p><b>Intervention Strategy:</b></p> <ul style="list-style-type: none"> <li>-Education: in-person and online training sessions and forums, customized training and online tools and resources to build capacity and awareness and connect building professionals to California building codes and standards. The program will incorporate International Code Council and American Institute of Architects continuing education units as a way to attract participation.</li> <li>-In-field Expert Code Support: a network of code experts will be made available to contractors as a proactive measure to clarify and resolve code questions. Through this service, a simple phone call or text from the field will provide contractors with the access to technical information they need to ensure they</li> </ul>	<p><b>Program Metrics:</b></p> <ul style="list-style-type: none"> <li>-Number of participating households, businesses and jurisdictions</li> <li>-Number and percentage of hard-to-reach populations served</li> <li>-Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the total size (number of the target audience) by sector. (M)</li> <li>Number of training activities</li> <li>-Increase in code compliance knowledge pre/post training</li> <li>-The percentage increase in closed permits for building projects triggering energy code compliance within participating jurisdictions</li> <li>-Number and percent of jurisdictions with staff participating in an Energy Policy Forum</li> </ul>

<p>are complying with California building codes and standards.</p> <p>-Technical Assistance: will provide building professionals with information, consultation, and expert advice needed to streamline and optimize permit submissions and increase code compliance</p> <p>-Engagement with local professionals involved in designing, permitting and constructing new construction, retrofits and remodels of single family and multifamily buildings including architects, engineers, contractors, field inspectors, and building plan reviewers, plus other key stakeholders such as homeowners and owner-builders</p> <p>-Leverage existing tools and resources developed by the IOUs, other RENs, CEC and the Energy Code ACE. Rural regions are too often unaware of these resources or do not have the resources to pursue and utilize them fully and in the most effective manner. To address this, the Central California Rural REN will curate and centralize these resources and will house them on the Central California Rural REN website for easy and simple access. Central California Rural REN will complement these tools and resources with materials that address the regional characteristics of each area. The portal will be home to relevant resources needed by local governments and building professionals including case studies that are relevant to various rural regions, based on local characteristics, such as climate zones, and will include pertinent information for local building officials and those who support code</p>	<p>-Number and percent of jurisdictions receiving Energy Policy technical assistance</p> <p>-Buildings receiving enhanced code compliance support and delivering compliance data to program evaluators</p> <p>All final metrics, targets and indicators will be confirmed (or established after baseline determination) after approval of Central California Rural REN and with submittal of full Implementation Plan</p>
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compliance and permit processing. Resources housed on the portal will include other relevant information including fire recovery updates, local standards that adhere to Title 24 updates and zero net energy (ZNE) and ZNE-Ready buildings. Emphasis will be placed on acquiring any available materials in Spanish, and in the future, the Central California Rural REN C&S program will develop and translate materials to Spanish.	
High-level description of delivery workforce including necessary scale and its risks: Delivery workforce will include staff of Central California Rural REN's Implementation Partners, including new hires dedicated to program implementation, and third-party engineering consultants. Availability and scale of the workforce needed for successful implementation of the program will not present a risk.	
Market Actors necessary for success: Local architects, designers, engineering companies, builders, sub-contractors, trade allies, wholesale suppliers	
Solicitation Strategy: Implementation of portions of the program will be outsourced. Supplier diversity will be incorporated into Central California Rural REN's solicitation strategy.	Transition Plan:  Not applicable
Expected Program Life:  Rollout will begin in 2024 and continue through the eight year cycle, contingent on CPUC approval. Program life may also be impacted by third party programs providing similar services in other area of Central California Rural REN's service area. Central California Rural REN will implement continuous improvements and refinements in	Short Term Plan  Launch the program in 2024 and begin full-scale implementation in 2025.

program design, delivery strategies and tactics throughout the life of the program.	
<p>Cost Effectiveness</p> <p>NA – Codes and Standards the program is a non-resource program</p>	<p>Long Term Outlook</p> <p>Rural building officials and the local building design and construction industries are complying at increasingly higher rates, helping rural communities achieve energy and GHG reduction plans. Central California Rural REN continues to be a vital resource for rural communities as they pursue more aggressive decarbonization and energy savings goals.</p>
<p>Proposed Annual Budgets for 2024-2027:</p> <p>2024: \$547,875</p> <p>2025: \$742,500</p> <p>2026: \$738,497</p> <p>2027: \$735,687</p>	<p>Anticipated directional and scale changes in budget for years 2028-2031: Assuming budget approval by the CPUC, budgets are anticipated to increase slightly over the last four years of the Business Plan period.</p>
<p>Implementation Plan: Implementation Plans for all Central California Rural REN programs will be developed after CPUC approval of the Central California Rural REN’s Advice Letter and approval of the Implementation Plan Template.</p>	

## CROSS-CUTTING SECTOR: FINANCE

The Central California Rural REN’s Finance Sector program will address first cost and access to capital barriers that exist in rural California. A bridge loan program will offer a no-cost short-term loan to cover energy efficiency project costs during construction to “bridge” the time gap between the time of application for IOU On-Bill Financing and funding of the loan, after construction completion. This time gap can be many months, and in some cases more than a year. This type of loan allows the customer to implement energy efficiency projects quicker and eliminates the added cost. and barrier to implementation, of having to obtain a separate loan to finance construction, before the OBF loan is funded. A microloan product will fill gaps in existing financing products such as GoGreen and PACE. The target customer segments will be residential and small-to medium-sized businesses in the commercial, industrial, public and agricultural sectors.

The loan amounts are expected to be below currently available financing products of \$5,000 and would carry low or zero interest and fees.

Both loan programs will be fully-developed through a competitive solicitation for third-party design, with the goal of creating products that meet needs of the customer and complement existing offerings and avoiding conflict with the outcomes of the CPUC's ongoing Order Instituting Rulemaking to Investigate and Design Clean Energy Financing Options for Electricity and Natural Gas Customer R.20-08-022.

## FINANCE SECTOR GOALS, OBJECTIVES AND STRATEGIES

### *Finance Sector, Goals*

Goal	Strategy	Objective
G1-Increase customer implementation of energy efficiency measures	-Address first cost barrier by providing financing -Reduce hassle factor by providing Energy Coaches during implementation to help with project scoping, justification and implementation	-Customers have a viable option to identify and finance energy efficiency upgrades even if they don't have the capital or access to affordable financing.
G2-Increase depth of energy efficiency retrofits	-Use financing to sell higher cost, comprehensive upgrades with no out of pocket cost for customer	-Customer realizes meaningful bill savings, increased property value, comfort benefits, and energy and GHG impacts of comprehensive energy efficiency upgrades
G3-Increase participation of equity-targeted SMBs, Public agencies and residents	-Promote program to equity-targeted customers -Provide concierge service to equity-targeted customers to ensure appropriate scope, cost and savings are realized	-Equity-targeted participants have access to easy to access and affordable capital for deep energy efficiency upgrades
G4-Increase use of IOU's On Bill Financing by rural SMBs and Public Agencies	-Bridge financing makes OBF more attractive by eliminating the need for the customer to use their own capital to pay for construction, before the OBF loan is funded.	-Customers and projects that qualify for IOU OBF loans use OBF as the first, best option for financing EE projects.

TABLE 55

FINANCE SECTOR COORDINATION

General coordination will be required with other PAs offering financing products to avoid possible competition or confusion in the marketplace. Since the Central California Rural REN’s bridge financing is designed to complement the IOUs’ OBF offering, coordination is needed to ensure the two products work together for the customer’s benefit as intended. IOUs and the Central California Rural REN ideally will co-market the OBF and bridge loan as a package for customers. The Central California Rural REN will also coordinate with, and actively participate in, the CPUC’s Rulemaking 20-08-022 Order Instituting Rulemaking to Investigate and Design Clean Energy Financing Options for Electricity and Natural Gas Customers. Coordination will be required with ESA Administrators to ensure ESA-qualified customers are provided all possible no-cost ESA services before the Central California Rural REN financing is offered to an ESA-qualified customer. Additional coordination may be needed between GoGreen and PACE financing, however in most cases Central California Rural REN microloans will be below the minimum loan amounts offered in those programs avoiding potential overlap.

CATEGORIZATION BY SEGMENT

Finance Categorization by Segment

Sector	Program	Segment	Rationale
Cross Cutting - Finance	Central California Rural REN EE Financing Program	Equity	Central California Rural REN's finance offering targets Disadvantaged, Underserved and hard-to-reach customers primarily

TABLE 56



## PROGRAM DETAILS

Program Name: Central California Rural REN Finance Equity Program	
<p>Program ID: CCR-FIN-001</p> <p>New / Existing: NEW</p> <p>Link to implementation plan if existing (see D.21-05-031): IP to be developed after CPUC approval of CCR REN Advice Letter and new IP template.</p>	
<p>Portfolio Segment:</p> <p>EQUITY</p>	<p>Implementation Party:</p> <p>Central California Rural REN</p>
<p>Applicable Sector:</p> <p>Cross Cutting - Finance</p>	<p>Market Sub-Sector:</p> <p>Residential, Micro, Small, and Medium-sized Businesses, Public</p>
<p>Sector Challenge:</p> <p>First cost remains as one of the most common and persistent barriers to residential, small business and public sector implementation of deep, comprehensive energy efficiency and building decarbonization upgrades. Progress has been made in developing innovative financing products to address the first cost barrier, but there are gaps that still exist, including minimum loan amount, high cost (interest rate), high minimum credit score hurdles, and sometimes onerous application processes. One of the most attractive loan programs is the On-Bill Financing programs offered by all of the CA Investor-Owned Utilities. But these programs are only for non-residential customers, have a minimum loan amount of \$5,000, and are funded only after completion of construction, leaving the customer to cover costs during construction or pay additional costs for short term construction financing. Additionally, awareness and support for existing loan</p>	<p>Sector Opportunity:</p> <p>One opportunity is to create financing products that fill gaps, to complement the host of available financing products and also make them more effective. For the On-Bill Financing program, a short-term construction loan, or bridge loan, solves the problem of the customer having to have enough cash to pay for the construction before the OBF loan is funded. While this type of financing may be available in the market from traditional lenders and some contractors, it usually carries high interest, higher qualifying criteria, requires a down payment, and may not be applicable to energy efficiency projects. Another opportunity is micro and small loans that cover the cost of energy efficiency projects for homeowners and small businesses. Loan amounts would be less than existing financing programs such as GoGreen and PACE, and would be lower cost than alternatives such as credit cards or manufacturer financing.</p>

products may be lower in rural regions than in urban or suburban regions.	
<p><b>Known Equity Concerns in the Selected Markets:</b></p> <p>A large portion of Central California Rural REN's homeowners, small businesses and public agencies are located in low-income communities, are hard-to-reach due to the combination of rural location, number of employees, and/or in leased spaces, and in the case of public agencies may be very small and not as well-funded as urban/suburban agencies. SMBs in rural areas employ a higher portion of local workers than large businesses, highlighting the importance of healthy SMBs to the economic health of rural communities. Credit scores may not be as high in rural areas, and rural areas are served by fewer financial institutions.</p>	<p><b>Proposed Solutions to Equity Concerns:</b></p> <p>Central California Rural REN's Finance Program will focus on developing financing products that specifically address the identified equity concerns. Marketing and outreach will target equity customers. The program will establish targets that will ensure achieving a high percentage of participation from targeted equity customers.</p>
<p><b>Program Description:</b></p> <p>Central California Rural REN's cross-cutting Finance program will equitably support the residential, SMB and public sectors in the Central California Rural REN communities through low/no cost loans that will encourage and accelerate the implementation of energy efficiency projects. Loan products will address first cost and access to capital barriers that exist in rural California and will span gaps in current Investor-Owned Utility (IOU) and other statewide offerings. The program will offer bridge loans to complement and improve the effectiveness of IOU On-Bill Financing. Micro loans will fill a niche in the realm of currently available financing products for loans for EE upgrades below current minimum loan amounts, with easy qualifying and flexible repayment terms.</p> <p>Bridge loans will provide Central California Rural REN customers a means of covering the cost of energy upgrade projects before other funding is received (which may include On Bill Financing (OBF), incentives/rebates, or other external loans, grants, or financing programs). In the case of OBF, bridge loans will bridge the time gap between time of approval for an IOU's OBF and the disbursement of OBF funds upon verification of the project installation by the OBF program. This gap, which can be months or in some cases a year or more, can be a significant</p>	

<p>financial hardship for cash strapped rural customers. Micro loans will allow customers to implement energy efficiency and decarbonization measures with no out of pocket cost.</p> <p>Detailed design and implementation of the finance program will be outsourced to a third-party expert in energy finance and details of the program will be included in the Implementation Plan to be developed by the selected 3P implementer.</p>	
<p><b>Intervention Strategy:</b></p> <ul style="list-style-type: none"> <li>-design and implement an EE bridge loan product</li> <li>-design and implement an EE microloan product</li> <li>-promote financing as a solution to overcome first-cost barriers, focusing on equity-targeted rural customers</li> <li>-leverage the Residential Equity program marketing, education and outreach activities</li> <li>- leverage the Public program</li> <li>-provide a loan concierge service to help customers select the best financing and incentives for their project and assist with loan and incentive applications.</li> </ul>	<p><b>Program Metrics:</b></p> <ul style="list-style-type: none"> <li>-Equity-targeted customer participation, %</li> <li>-Hard-to-reach customer participation</li> <li>-Underserved customer participation</li> <li>-Disadvantaged community customer participation</li> <li>-# of loan applications submitted</li> <li>-#of loans funded</li> <li>-energy savings of projects financed</li> </ul> <p>All final metrics, targets and indicators will be confirmed (or established after baseline determination) after selection of program design and implementation contractor</p>
<p>High-level description of delivery workforce including necessary scale and its risks:</p> <p>Delivery workforce will include staff of Central California Rural REN's Implementation Partners, including new hires dedicated to program implementation, and third-party design and implementation contractor. Local trade allies will also promote the program and assist customers in applying for financing. Availability and scale of the workforce needed for successful implementation of the program will not present a risk.</p>	
<p>Market Actors necessary for success: Local contractors, trade allies, wholesale suppliers, and retailers must be able to support the increase in demand for the promoted EE measures. Depending on the final program design, local lenders may be needed for underwriting and loan funding.</p>	
<p><b>Solicitation Strategy:</b> Design and implementation of all or portions of the program will be outsourced. Supplier diversity</p>	<p><b>Transition Plan:</b></p> <p>Not applicable</p>

will be incorporated into Central California Rural REN's solicitation strategy.	
<p>Expected Program Life:</p> <p>Rollout will begin in 2024 and continue through the eight year cycle pending CPUC approval. Central California Rural REN will implement continuous improvements and refinements in program design, delivery strategies and tactics throughout the life of the program.</p>	<p>Short Term Plan</p> <p>Conduct a solicitation for third party design and implementation, award contract(s), get the program operational in 2024 and begin full-scale implementation in at least two Central California Rural REN regions in 2025, then roll out to remaining regions.</p>
<p>Cost Effectiveness</p> <p>NA – this program is a non-resource program</p>	<p>Long Term Outlook</p> <p>Rural customers become comfortable using financing to implement energy efficiency and decarbonization measures, and adoption rates and energy savings in the region increase. Loan default rates are low and significant energy cost savings are realized, especially for equity-targeted small businesses.</p>
<p>Proposed Annual Budgets for 2024-2027:</p> <p>2024: \$ -</p> <p>2025: \$ -</p> <p>2026: \$303,750</p> <p>2027: \$303,750</p>	<p>Anticipated directional and scale changes in budget for years 2028-2031: Assuming budget approval by the CPUC, budgets are anticipated to increase slightly over the last four years of the Business Plan period.</p>
<p>Implementation Plan: Implementation Plans for all Central California Rural REN programs will be developed after CPUC approval of the Central California Rural REN's Advice Letter and approval of the Implementation Plan Template</p>	

## CROSS-CUTTING SECTOR: WORKFORCE, EDUCATION & TRAINING (WE&T)

The Central California Rural REN's cross cutting WE&T program will provide individuals in rural hard-to-reach, underserved, and disadvantaged communities access to career opportunities in clean energy-related markets. The program aims to enhance local knowledge and employment in energy efficiency by providing training pathways to

support the regional workforce and the state’s energy efficiency goals. The program will offer customized versions of in-person and virtual training curriculum to best serve the populations in each specific region. Individuals are enrolled into the program pathway that is best suited for them, and training is delivered directly and/or in coordination with the Central California Rural REN’s community partners to ensure development of a well-trained and knowledgeable workforce that will support increased demand for energy-related systems and technologies in the communities they live.

## WE&T GOALS, OBJECTIVES AND STRATEGIES

### *Workforce, Education, and Training Sector Goals*

Goal	Strategy	Objective
G1- Rural workers employed in rural communities to install energy efficiency measures offered through IOU, and third-party Resource Acquisition Programs.	<ul style="list-style-type: none"> <li>-Climate Careers participants employed to conduct Central California Rural REN audits.</li> <li>- CEA participants supported in career support services, including coaching and job/internship/apprenticeship placement for positions directly supporting energy efficiency.</li> </ul>	<ul style="list-style-type: none"> <li>-Increased program participation by both the implementers and the end use customer.</li> <li>-Completed Resource Acquisition program projects in Central California Rural REN counties increase.</li> <li>-Benefit future generations and build community wealth through lower bills, career opportunity and clean energy investments.</li> </ul>
G2- Training locations are geographically situated to ensure an equitable distribution of access to disinvested places.	<ul style="list-style-type: none"> <li>- Coordinate with local governments to use public sites for hyper-rural training locations.</li> <li>-Continually assess related offerings by IOUs and non-IOUs to ensure sites exist in unserved communities.</li> </ul>	<ul style="list-style-type: none"> <li>-Training sites and hands-on learning sites accessible through confirmed means of public transportation in geographically hard-to-reach spaces.</li> </ul>

Goal	Strategy	Objective
G3- Program pathways are delivered in partnership with rural agencies experienced in implementing EE programs and shared through a network of connected sites and content.	<ul style="list-style-type: none"> <li>-Form/convene Regional Community Workforce Advisory Council.</li> <li>-Coordinate with Community College Districts, Trustees and College Presidents on bi-annual basis.</li> <li>-Locally based train-the-trainer for CEA sites.</li> </ul>	<ul style="list-style-type: none"> <li>-Work with County Workforce Investment Boards, Economic Development Departments, Economic Opportunities Commissions, and local employers to actively engage in the program deployment and delivery through Advisory Councils. Regional Planning Units and Building Trades Councils advise on program growth and scaling through Advisory Councils.</li> <li>- Central California Rural REN member agencies work with trusted partners from the EE industry and community groups to adjust design and delivery.</li> </ul>
G4- Coordinate with Resource Acquisition Program implementers to ensure workers meet program requirements. Support local hiring initiatives and adjust course content to meet new Federal, State, or utility requirements.	<ul style="list-style-type: none"> <li>-Form/convene IOU and Resource Acquisition Program Implementers Advisory Council</li> </ul>	<ul style="list-style-type: none"> <li>- Third Party Programs and Investor-Owned Utilities advise on programs through Advisory Councils.</li> <li>-Local governments support workforce through local hiring policies for public projects</li> <li>- Supply market demanded curriculum and technology necessary to meet regulatory requirements.</li> <li>-Trainings allow for flexible design and delivery meeting the growing need for shorter-time and just-in-time trainings</li> </ul>

TABLE 57

## WE&T SECTOR COORDINATION

The Central California Rural REN will coordinate with the statewide WE&T program to ensure they are complementary to each other, and that there is no overlap in service, or

conflict in messaging and marketing. Coordination with other PAs will also be needed to assist with placement of trained individuals in other energy efficiency programs.

## CATEGORIZATION BY SEGMENT

### *Workforce, Education & Training Categorization by Segment*

Sector	Program	Segment	Rationale
Workforce, Education & Training	Rural California Pathway for Climate Adaptive Careers (RCPCAC)	Equity	Provides Disadvantaged Workers, Veterans, Women and Underserved Community members in skills training, certification, and job placement in Climate Adaptive Careers.

TABLE 58

## PROGRAM DETAILS

Program Name: Central California Rural REN Workforce, Education and Training Equity Program	
Program ID: CCR-WE&T-001 New / Existing: NEW Link to implementation plan if existing (see D.21-05-031): IP to be developed after CPUC approval of new IP template.	
Portfolio Segment: EQUITY	Implementation Party: Central California Rural REN
Applicable Sector: Cross Cutting - Workforce, Education and Training	Market Sub-Sector: Workforce, Education and Training
Sector Challenge: Accessibility: hand-on practicums are necessary for a complete skill-set. Training sites are inaccessible to rural and hyper-rural locations.  Undersupply of trained workers: Lack of trained new workers and an aging workforce	Sector Opportunity: Programs designed to reach disadvantaged workers, with specific focus on returning citizens, veterans, women, and opportunity youth.  Training locally and employing locally.  Training that can react quickly and adapt effectively to the needs of energy job markets

<p>leave gaps in the supply pipeline for energy efficiency and clean energy workers.</p> <p>Alternative to traditional education pathways needed: younger generations are rejecting traditional education pathways and the high costs associated with it.</p> <p>Need soft skills training and wraparound services.</p> <p>Lack of awareness of CA EE industry and career opportunities.</p> <p>Rapidly changing industry, regulatory and policy impacts require just-in time trainings and faster training modules.</p>	<p>Programs with career technical training emphasis, plus soft-skills needed for business development and industry understanding</p> <p>Growing need for career building and upskilling of existing workers in building electrification technologies and strategies</p>
<p>Known Equity Concerns in the Selected Markets:</p> <p>The Urban Sustainability Directors Network (USDN) boils down equity into four categories, “equity in sustainability incorporates procedures, the distribution of benefits and burdens, generational impact, and structural accountability<sup>62</sup> The four dimensions of equity (procedural, distributional, structural, and generational) are centered around the issues that rural communities often face that prevent them from accessing and benefitting from climate adaptive career opportunities.</p>	<p>Proposed Solutions to Equity Concerns:</p> <ul style="list-style-type: none"> <li>- Enhancing community wealth through energy project awareness leading to an increased opportunity to train and employ a local workforce</li> <li>-Engaging directly with disadvantaged workers in Central California Rural REN communities by providing training opportunities that are accessible and convenient</li> <li>-Collaborate with local agencies to effectively educate and inform community members on the availability and benefits of climate adaptive careers</li> </ul>

62 Park, Angela. Urban Sustainability Directors Network, 2014, Equity in Sustainability: An Equity Scan of Local Government Sustainability Programs, [https://www.usdn.org/uploads/cms/documents/usdn\\_equity\\_scan\\_sept\\_2014\\_final.pdf](https://www.usdn.org/uploads/cms/documents/usdn_equity_scan_sept_2014_final.pdf).



<p><b>Program Description:</b></p> <p>The cross-cutting Workforce, Education and Training program accelerates training (upskilling of existing workers and training for new workers and increases opportunities for employment. Seeking to address equity issues access to, and awareness of energy related careers, the Central California Rural REN WE&amp;T offering presents pathways to diffuse program benefits more equitably for rural Californians. Program pathways are targeted broadly for disadvantaged workers, but they specifically target returning citizens, veterans, Opportunity Youth, women, communities of color, and displaced Ag workers. The program addresses skills training, trades advancement, pre-apprenticeship placement and supports building professionals, while coordinating with third-party program implementers and local employers to increase opportunities. It will support training for and employment of Energy Advisers to deliver parts of other Central California Rural REN programs, as well as upskill trades in the regions. The Central California Rural REN will promote specific courses and hold seats for those in the trade ally network, allowing local contractors the ability to upskill through specific certifications and training. The benefit being received by the contractor, the program will offer customized versions of in-person and virtual training curriculum to best serve the populations in each specific region. Individuals are enrolled into the program pathway that is best suited for them, and training is delivered directly and/or in coordination with the Central California Rural REN's community partners, ensuring development of a well-trained and knowledgeable workforce that reflects the communities they live in.</p>	
<p><b>Intervention Strategy:</b></p> <ul style="list-style-type: none"> <li>-Deliver training in partnership with local agencies through a network of connected sites and standardized content</li> <li>-Create placement opportunities for program graduates in other Central California Rural REN programs</li> <li>-Utilize remote learning platforms and as COVID-19 restrictions are eased, incorporate in-person training</li> <li>-Use proven successful training programs such as Clean Energy Academy and Climate Careers</li> </ul>	<p><b>Program Metrics:</b></p> <ul style="list-style-type: none"> <li>-Equity-targeted worker participation, percentage</li> <li># of CEA cohorts trained</li> <li># of CEA student placements</li> <li>% of CEA student placements</li> <li># of Green House Youth Staff employed</li> <li># of students enrolled in MC3 programs</li> <li># of pre-apprenticeship seats confirmed</li> </ul> <p>All final metrics, targets and indicators will be confirmed (or established after baseline determination) after selection of third-party program design and implementation contractors.</p>

-Clean Energy Academy and Climate Careers provides pathways to employment in EE programs and trades	
High-level description of delivery workforce including necessary scale and its risks: Delivery workforce will include staff of Central California Rural REN's Implementation Partners and third-party design and implementation contractors. Availability and scale of the workforce needed for delivery of the WE&T program will not present a risk.	
Market Actors necessary for success: Employment of WE&T graduates will rely on the entire spectrum of market actors	
Solicitation Strategy: Design and implementation of all, or portions of the program will be outsourced. Supplier diversity will be incorporated into Central California Rural REN's solicitation strategy.	Transition Plan:  Not applicable
Expected Program Life: Rollout will begin in 2024 and continue through the eight year cycle, pending CPUC approval. Central California Rural REN will implement continuous improvements and refinements in program design, delivery strategies and tactics throughout the life of the program.	Short Term Plan: Conduct a solicitation for third party design and implementation, award contract(s), launch the program in 2024 and begin full-scale implementation 2025.
Cost Effectiveness: NA - this is a non-resource program	Long Term Outlook: Central California Rural REN's WE&T program substantially increases the skills of the local workforce, and provides pathways for employment of local workers within local communities.
Proposed Annual Budgets for 2024-2027: 2024: \$620,346 2025: \$2,739,337	Anticipated directional and scale changes in budget for years 2028-2031:

2026: \$2,435,440 2027: \$2,754,616	Assuming budget approval by the CPUC, budgets are anticipated to increase slightly over the last four years of the business plan period.
Implementation Plan: Implementation Plans for all Central California Rural REN programs will be developed after CPUC approval of the Central California Rural REN's Advice Letter and approval of the Implementation Plan Template.	

## INDUSTRIAL SECTOR

The Central California Rural REN's portfolio does not include specific Industrial Sector programs, however Finance and Workforce, Education and Training cross-cutting programs will be marketed and available for Industrial sector businesses.

## PUBLIC SECTOR

The Central California Rural REN's Public Sector program will offer a suite of services to rural governments and public agencies to identify, develop, track, and implement energy savings opportunities in their buildings and facilities on their path to meeting mandates for GHG reduction and Zero Net Energy. Energy efficiency projects developed using the Central California Rural REN's support services will be tracked in a pipeline queue and handed off to applicable IOU or other PA incentive programs and/or financing programs, including the Central California Rural REN's Bridge Loan Program. In addition to providing much needed project support services, the program will increase awareness and expertise of public agencies, increase information sharing among them, and help them demonstrate leadership in energy efficiency within their local communities. The Public Sector program will focus on agencies, schools and local governments in underserved and disadvantaged communities as well as those qualifying as geographically hard-to-reach.

## PUBLIC SECTOR GOALS, OBJECTIVES AND STRATEGIES

### *Public Sector Goals*

Goal	Strategy	Objective
G1-Reduce energy use and GHG emissions	-Provide support to identify and implement EE projects, and to incorporate EE projects into Capital Improvement Plans and Climate Action Plans	-Rural governments and agencies implement EE and decarbonization projects
G2-Help the public sector lead by example	-Integrate renewables, EV charging, and Demand Response recommendations in feasibility studies -Publish case studies, build community awareness of energy strategies	-Rural governments and agencies adopt ZNE and decarbonization in their own facilities which causes increased adoption in their communities
G3-Support local control and energy security	-Assess DG and Microgrid feasibility -Encourage use of local workforces in project implementation	-Rural governments and agencies become more self-sufficient and energy resilient

TABLE 59

## PUBLIC SECTOR COORDINATION

The Central California Rural REN will coordinate with IOUs' Local Government Partnership programs, third-party programs targeting Public Sector customers, and other demand-side programs, including IOU, CEC, CPUC energy efficiency, Demand Response, Electrification and Market Transformation programs targeting Public commercial customers to leverage funding and services, especially in the area of decarbonization and EV charging station siting.

## CATEGORIZATION BY SEGMENT

### *Public Categorization by Segment*

Sector	Program	Segment	Rationale
Public	Local Government and Public Agency EE Outreach and Support	Equity	Central California Rural REN's Public sector program targets local governments, schools and public agencies that serve Disadvantaged, Underserved and hard-to-reach communities primarily

TABLE 60

## PROGRAM DETAILS

Program Name: Central California Rural REN Public Equity Program	
Program ID: CCR-PUB-001 New / Existing: NEW Link to implementation plan if existing (see D.21-05-031): IP to be developed after CPUC approval of new IP template.	
Portfolio Segment:  EQUITY	Implementation Party:  Central California Rural REN
Applicable Sector: Public	Market Sub-Sector: Local Governments, Public Agencies, Special Districts, K-12 Schools
Sector Challenge: Energy efficiency public agency programs in rural communities face the following challenges: -Limited staff capacity to address EE opportunities -Due to lack of capital and limited staff, facilities and systems are usually maintained beyond normal service life	Sector Opportunity: -Supplement staff with expert consulting support -Provide scopes of work to replace older, inefficient equipment with more cost effective high-efficient alternatives -High demand for an EE program focusing on equity-targeted, small rural public sector customers

<ul style="list-style-type: none"> <li>-Public sector customers serving rural, small and underserved communities not well served by resource acquisition programs</li> <li>-Gap in IOU non-resource market support EE programs serving the segment</li> <li>-Public sector revenues are down due to COVID-19 impacts such as decreased sales tax from hospitality and restaurant businesses.</li> </ul>	<ul style="list-style-type: none"> <li>-A non-resource program can funnel energy savings opportunities to Central California Rural REN and other financing and resource acquisition programs.</li> </ul>
<p>Known Equity Concerns in the Selected Markets:</p> <p>Public facilities in lower income rural regions do not have the resources to maintain and upgrade their facilities.</p>	<p>Proposed Solutions to Equity Concerns:</p> <p>Provide increased technical assistance and services, acting on behalf of agencies as an extension of staff, in order to identify energy savings opportunities and manage implementation of upgrades and participation in EE programs. Central California Rural REN's Finance Program will provide no cost financing for upgrade projects. Establish targets that will ensure achieving a high percentage of participation from targeted equity public customers.</p>
<p>Program Description:</p> <p>The Central California Rural REN Public Equity Program is a public agency-focused program designed to help hard-to-reach, disadvantaged, and underserved public agencies in the AMBAG territory to access, understand, and participate in energy efficiency by providing local expertise and knowledge of public buildings and infrastructure. The program builds on existing relationships, data, and experience to bring savings and knowledge of energy use to public sector customers.</p>	
<p>Intervention Strategy:</p> <ul style="list-style-type: none"> <li>-Use energy meter data such as ESPM, Green Button, and PG&amp;E's Share My Data to identify usage patterns, changes, and opportunities for energy savings. By viewing this information across multiple agencies, we will develop</li> </ul>	<p>Program Metrics:</p> <ul style="list-style-type: none"> <li>-Equity-targeted agency, school, local government customer participation, percentage</li> <li>-Hard-to-reach customer participation</li> <li>-Underserved customer participation</li> </ul>

<p>scaled savings opportunities, create economies of scale for public dollars, inform future community-wide plans, and develop policies in support of energy efficiency procurement and leadership</p> <ul style="list-style-type: none"> <li>- Deploy a public-facing, web-based platform to work collaboratively with local governments to create infrastructure inventories that the customer can access, while simultaneously providing information to project managers to identify opportunities for energy equipment improvements. SJVCEO developed this tool and will provide it at no-cost to the Public Equity Program. Inventories will be 'crowdsourced' allowing the customer to update their information through a secured log-in and Central California Rural REN staff will augment information utilizing data gathered from ESPM access, agency insurance filings and risk management reports and previous energy efficiency data from audits conducted by third parties.</li> <li>- Produce Energy Readiness Reports (ERRs) that will serve as a primary tool for communicating with agency staff and local elected officials to use data analysis collected from energy benchmarking to identify and prioritize opportunities for energy savings. The ERR will also prompt jurisdictions to integrate EE into their capital improvement planning process when making decisions on building and equipment upgrades and deferred maintenance. ERR's will identify opportunities for funding and financing paths/programs</li> </ul>	<ul style="list-style-type: none"> <li>-Disadvantaged community customer participation</li> <li>-Contacts: # of contacts by sub-sector and type</li> <li>-Pipeline: kWh, kW, Therms savings by phase (identified, committed, in construction, completed)</li> <li>- Audit/Reports (f): Number of audits or reports prepared or presented</li> <li>-Projects Managed (s): Number of projects managed and/or using GRITS, those where financing is facilitated or through OBF</li> <li>-Education (s): Number of Educational Opportunities offered</li> <li>-Benchmarking (s): Number or percentage of Buildings Benchmarked</li> </ul> <p>All final metrics, targets and indicators will be confirmed (or established after baseline determination) after approval of Central California Rural REN with submittal of full Implementation Plan.</p>
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<p>and will include council- ready documents that support agency staff in moving projects from conception to completion, as well as applicable EE policies.</p> <p>-Provide inside project management support to help apply for funding, write staff reports, provide presentations to elected officials, conduct outreach to contractors, manage project installation, and help fulfill incentive or grant reporting requirements.</p> <p>-Promote financing and leverage Finance program micro loan and OBF bridge financing as a solution to overcome first-cost barriers.</p>	
<p>High-level description of delivery workforce including necessary scale and its risks:</p> <p>Delivery workforce will include staff of Central California Rural REN's Implementation Partners, including new hires dedicated to program implementation, and third-party engineering consultants. Availability and scale of the workforce needed for successful implementation of the program will not present a risk.</p>	
<p>Market Actors necessary for success: Local engineering companies, contractors, trade allies, wholesale suppliers, and retailers must be able to support the increase in local demand for EE services.</p>	
<p>Solicitation Strategy: Implementation of portions of the program will be outsourced. Supplier diversity will be incorporated into Central California Rural REN's solicitation strategy.</p>	<p>Transition Plan:</p> <p>Not applicable</p>
<p>Expected Program Life:</p> <p>Rollout will begin in 2024 and continue through the eight year cycle, at a scale to be determined during the first 4 year period, and pending budget approval by the CPUC. Additional factors include performance of</p>	<p>Short Term Plan</p> <p>Launch the program in 2024 and begin full-scale implementation in the AMBAG territory in 2025.</p>



third party programs and LGPs providing similar services in other area of Central California Rural REN's service area. Central California Rural REN will implement continuous improvements and refinements in program design, delivery strategies and tactics throughout the life of the program.	
<p>Cost Effectiveness</p> <p>NA – this program is a non-resource program</p>	<p>Long Term Outlook</p> <p>Rural public agencies and local government customers become comfortable using Central California Rural REN support to implement energy efficiency and decarbonization measures, and adoption rates and energy savings in the sector increase. The program may be expanded to other Central California Rural REN regions depending on performance of third party programs and LGPs providing similar services in those areas.</p>
<p>Proposed Annual Budgets for 2024-2027:</p> <p>2024: \$266,960</p> <p>2025: \$298,125</p> <p>2026: \$299,700</p> <p>2027: \$304,425</p>	<p>Anticipated directional and scale changes in budget for years 2028-2031: Assuming budget approval by the CPUC, budgets are anticipated to remain constant over the four years of the business plan period but will be adjusted as needed based on demand for the program.</p>
<p>Implementation Plan: Implementation Plans for all Central California Rural REN programs will be developed after CPUC approval of the Central California Rural REN's Advice Letter and approval of the Implementation Plan Template.</p>	

## PROGRAM SPECIFIC COORDINATION

Coordination will be needed between Local Government Partnership and IOU third-party contracts serving local governments and public agencies serving the region.

## *RESIDENTIAL SECTOR*

The Central California Rural REN is proposing one program in the Residential Sector – a non-resource, Equity Segment program. Because there is a higher percentage of customers owning and occupying detached single-family homes than attached multifamily in rural areas, this program focuses on single-family owners and tenants. In addition to being geographically hard-to-reach, a large percentage of single-family households in the Central California Rural REN region are also in disadvantaged communities and/or are underserved. The Central California Rural REN’s residential program will provide a high-level of tailored outreach and in-person services and fill a gap that has been growing over time as pressures of cost effectiveness have caused IOUs to reduce their investment in the residential segment in general, and especially in the areas of in-person services and support.

The Residential Equity Segment Program will provide outreach and energy awareness information to all residential customers, tailored to the region, climate, county or community-level demographics, housing stock, and other characteristics, with a priority to serve hard-to-reach, underserved and disadvantaged communities. A basic energy efficiency “toolkit” containing simple training materials and simple low-cost energy efficiency measures such as LED lamps and faucet aerators will be provided at no-cost to residents who register for the program. The customer will install the measures and be encouraged to request a virtual or in-home audit as a follow-up. The audits will provide specific, actionable recommendations for improving the home to reduce energy consumption and GHG emissions and will guide the customer toward available incentives and financing options offered by the Central California Rural REN or electric and gas utility companies and third-party program implementers.

## RESIDENTIAL GOALS, OBJECTIVES AND STRATEGIES

### *Residential Sector Goals*

Goal	Strategy	Objective
G1-Create awareness of EE and decarbonization benefits and techniques among rural customers	-Inform and educate customers about specific actionable EE opportunities via EE kits, and virtual and in-home energy assessments	Rural customers engage with and participate in Central California Rural REN outreach and education activities
G2-Increase participation of equity-targeted customers in EE programs	-Deploy tailored marketing and outreach campaigns to equity-targeted customer groups -Use EE kits and energy coaches as an extra level of support for participation	At least 75% of program participants are equity targeted customers
G3-Drive energy savings and GHG reductions in rural residential sector	--Refer customers to IOU and third-party programs, and coordinate application process.	customers participate in IOU and third-party resource programs
G4-Support and grow the local EE trade ally/contractor market	-Support rural contractors marketing and promotion through a trade ally network system	Trained, knowledgeable contractors actively support Central California Rural REN programs and customers to implement EE measures/projects.

TABLE 61

## RESIDENTIAL SECTOR COORDINATION

The Central California Rural REN's Residential sector program will coordinate with IOU, CEC, CPUC energy efficiency, Demand Response, Electrification and Market Transformation programs targeting residential customers to leverage funding and services. The Central California Rural REN will coordinate closely with other residential behavioral and incentive programs as well as external finance and incentive program offerings to assist customers in participation and avoid overlap or conflicting messaging.

## CATEGORIZATION BY SEGMENT

### *Residential Categorization by Segment*

Sector	Program	Segment	Rationale
Residential	Outreach and Education	Equity	The Residential Equity program targets CPUC-defined Equity customers in hard-to-reach, disadvantaged, and underserved categories. 75% of the program participants will be in these equity categories.

TABLE 62

### PROGRAM DETAILS

Program Name: Central California Rural REN Residential Equity Program	
<p>Program ID: CCR-RES-001</p> <p>New / Existing: NEW</p> <p>Link to implementation plan if existing (see D.21-05-031): IP to be developed after CPUC approval of CCR REN Advice Letter and new IP template.</p>	
<p>Portfolio Segment:</p> <p>EQUITY</p>	<p>Implementation Party:</p> <p>Central California Rural REN</p>
<p>Applicable Sector:</p> <p>Residential</p>	<p>Market Sub-Sector:</p> <p>Single Family Residential (primarily)</p> <p>Mobile Home and Multi-Family (in select regions or communities)</p>
<p><b>Sector Challenge:</b> Energy efficiency in rural communities faces the following challenges:</p> <ul style="list-style-type: none"> <li>-Geographic Isolation</li> <li>-Lack of energy efficiency awareness in rural communities</li> <li>-High first-cost of energy efficiency, especially for services workers and retirees</li> </ul>	<p><b>Sector Opportunity:</b> With relatively low awareness and participation in EE programs comes an opportunity for a locally-based, regional approach to raise awareness and increase customer adoption of EE practices and measures. With TOU rates phasing in, and the market at an inflection point with regard to decarbonization strategies, the</p>

<p>-Low engagement by Rural HTR customers in energy efficiency programs that are perceived as more suited for urban/suburban residents.</p>	<p>timing is ideal for tailored education and awareness approaches to drive new and deep energy savings in rural communities. High energy burden and extreme weather provide motivation for customers to pursue energy efficiency for cost savings and increased comfort benefits.</p>
<p><b>Known Equity Concerns in the Selected Markets:</b></p> <p>A large portion of Central California Rural REN's communities are disadvantaged, lower income, and geographically hard-to-reach. Energy burdens are on average, much higher than the state average, and counterparts in urban/suburban areas.</p>	<p><b>Proposed Solutions to Equity Concerns:</b></p> <p>Central California Rural REN's Residential Equity program targets equity customers first, including service and agricultural workers and retirees. Outreach and messaging strategies are tailored to the needs and characteristics of local communities and approaches will be customized based on predominant culture, language, employment, and housing type, to develop knowledge of basic energy and energy management principles.</p>
<p><b>Program Description:</b></p> <p>Central California Rural REN's Residential Equity program connects rural residential communities to energy efficiency opportunities through targeted outreach, education and technical assistance focusing on equity-targeted hard-to-reach, disadvantaged, and low-income customer groups, including agriculture, hospitality, healthcare workers, and retirees who often face very high energy burdens in rural areas. The program aids rural communities in better understanding the concepts of energy conservation, energy efficiency, and demand response; connects customers to the opportunities for energy savings that might exist in their homes; and guides customers to other Central California Rural REN programs as well as external programs and resources to support implementation of energy projects.</p>	
<p><b>Intervention Strategy:</b></p> <p>-Marketing, Education and Outreach campaigns via digital (email, social media), direct mail, local print, radio, and television media, community</p>	<p><b>Program Metrics:</b></p> <p>As a non-resource program, quantitative metrics and indicators focus on delivery and impacts, including:</p>

<p>events, utilizing local elected officials, agency staff, CBOs, FBOs, energy efficiency opportunity awareness “toolkits” provided to customers who sign up via marketing channels</p> <p>-Virtual energy efficiency, net zero energy and carbon audits utilizing interactive modeling platform (initially offered only in Central Coast region)</p> <p>-In-home energy audits conducted by local program staff and Green House Calls Climate Careers trainees</p> <p>-Energy reports that map out action steps to implement EE measures and behaviors, connecting customer with other supporting programs, incentives and financing offered by IOU, third parties, and Central California Rural REN.</p>	<p>-Equity-targeted customer participation, percentage</p> <p>-Hard-to-reach customer participation</p> <p>-Underserved customer participation</p> <p>-Disadvantaged community customer participation</p> <p>-Outreach events held and number of attendees</p> <p>-Digital media offerings and response/effectiveness</p> <p>-Total populations reached w/ME&amp;O campaigns</p> <p>-EE Toolkits distributed and installed</p> <p>-Audits conducted, in person, phone, virtual</p> <p>Targets for each metric will be confirmed (or established after baseline determination) after CPUC approval of Central California Rural REN business plan</p>
<p>High-level description of delivery workforce including necessary scale and its risks:</p> <p>Delivery workforce will include staff of Central California Rural REN’s Implementation Partners, including new hires dedicated to program implementation and temporary paid and volunteer workers to staff outreach events and Green House Calls trainees from Central California Rural REN’s WE&amp;T program. Availability and scale of the workforce needed for successful implementation of the program will not present a risk.</p>	
<p>Market Actors necessary for success: Local contractors, trade allies, wholesale suppliers, and retailers must be able to support the increase in demand expected from the program’s ME&amp;O efforts.</p>	
<p>Solicitation Strategy: Portions of the Res Equity program that may be outsourced include virtual audit app, EE toolkits, and in-home audits.</p>	<p>Transition Plan:</p> <p>Not applicable</p>

Central California Rural REN will implement a strong supplier diversity program in its outsourcing activities.	
<p>Expected Program Life:</p> <p>Rollout will begin in 2024 and continue through the eight-year cycle and beyond, contingent on CPUC budget approval. Central California Rural REN will implement continuous improvements and refinements in program design, delivery strategies and tactics throughout the life of the program.</p>	<p>Short Term Plan</p> <p>Get the program operational in 2024 and begin full-scale ME&amp;O implementation in all three Central California Rural REN regions in 2025.</p>
<p>Cost Effectiveness</p> <p>As a non-resource program cost effectiveness is not applicable.</p>	<p>Long Term Outlook</p> <p>Customers in rural communities become increasingly aware of energy policies and strategies and continue to implement energy savings activities and adapt to changing strategies and tactics.</p>
<p>Proposed Annual Budgets for 2024-2027:</p> <p>2024: \$1,141,875</p> <p>2025: \$3,745,125</p> <p>2026: \$3,736,125</p> <p>2027: \$3,740,625</p>	<p>Anticipated directional and scale changes in budget for years 2028-2031</p> <p>Assuming budget approval by the CPUC, budgets are anticipated to increase slightly over the last four years of the Business Plan period.</p>
<p>Implementation Plan: Implementation Plans for all Central California Rural REN programs will be developed after CPUC approval of the Central California Rural REN's Advice Letter and approval of the Implementation Plan Template.</p>	

## PORTFOLIO MANAGEMENT

### STRATEGIES TO OPTIMIZE PORTFOLIO AND MANAGE RISK

#### *APPROACH TO USE OF GOALS AND METRICS FOR PORTFOLIO OPTIMIZATION*

The foundation of the Central California Rural REN's management and optimization of its portfolio is based on a comprehensive set of goals and metrics it has established and described in preceding sections of this Business Plan. The Central California Rural REN's approach to using these goals and metrics to optimize the portfolio will include the following principles:

**Visibility and Transparency:** Publish metrics and progress to goals regularly and frequently. Ensure all team members have access to reports and dashboards. Report status and forecasts to the Central California Rural REN's Leadership Team at regular meetings and discuss possible course corrections.

**Data Analysis to Quickly Identify Trends:** Use automated programs and portfolio databases to produce performance summaries. Understand what tactics and strategies are working, and where possible corrections or program design modifications are needed to improve performance.

**Forecasting that Considers Market Trends:** Proactively take into account changes in market conditions that may affect program performance. Examples of Market Trends could include COVID-19 spread, economic trends such as inflation and unemployment.

**Flexibility to Use Additional Metrics or Goals as Needed:** The Central California Rural REN's proposed set of metrics and goals should be adequate to manage portfolio performance, but other proxies or indicators may be identified during implementation that may improve forecasting accuracy or better describe program performance.

#### PLAN AND PROCEDURES PA WILL FOLLOW FOR STAYING "ON-TARGET" IN ITS ABILITY TO MEET SAVINGS/TSB GOALS AND COST-EFFECTIVENESS TARGETS

The Central California Rural REN will develop procedures manuals for its management team to manage portfolio, segment, sector, and program level performance to achieve targets. Procedures will address operations, IT systems, program controls, program forms and agreements and tracking and reporting results and metrics. A customer relationship management software platform will be implemented by the internal administrator, County of San Luis Obispo, to manage programs. Program reports will quickly identify



metrics and indicators that are deviating from plan, and program operation teams will be expected to develop a recovery or cure plan to get back on target.

#### **APPROACH TO RISK MANAGEMENT, SUCH AS PLANNING FOR THE UNPREDICTABLE EVENTS. INCLUDE HERE ANY LESSONS LEARNED FROM COVID THAT INFORMED THE PAS MANAGEMENT APPROACH**

The Central California Rural REN understands the importance of managing the impacts to the program portfolio brought on by unpredictable events such as a pandemic, wildfires, floods, droughts, or other natural disasters. These crisis-based events require an agile and quick response by the Internal Administrator, who can mitigate the impact on the program portfolio and, in some instances, create an opportunity to increase energy efficiency adoption.

Central California Rural REN's presence across rural California, and its collaborative portfolio management structure, allows the Central California Rural REN to respond to such events in a structured, coordinated manner. The Central California Rural REN will mitigate its exposure to these unpredictable events by (1) conducting ongoing program performance reviews to identify needs in portfolio realignment, (2) implementing program budgets changes to address program performance, (3) resetting program operations to maintain program delivery, (4) reconfirming existing joint collaboration with other Program Administrators and their Implementers to support ongoing collaboration and (5) coordinating with the CPUC on needed programmatic or policy changes.

During the COVID-19 pandemic, Central California Rural REN members adjusted their customer relationships to create virtual engagements, allowing their energy efficiency initiatives to continue.

#### **APPROACH TO FLEXIBLE PORTFOLIO MANAGEMENT**

The Central California Rural REN's approach to managing its portfolio begins with the establishment of goals and outcomes (scope), schedules, and costs. These parameters become the program management triangle used by the management team to inform their segment or sector portfolios. Tracking and reporting systems are used to gather and consolidate program results, costs and schedules which are in turn will be used to produce dashboards and reports of performance in real-time that will show performance compared to goals. Forecasts are reviewed, and if necessary, updated at

least quarterly (depending on the program). When forecasts indicate changes are needed in any of the three program triangle variables, re-planning of portfolio variables at the sector, segment, and portfolio levels is triggered. Sector, segment, and portfolio management work together to consider corrective actions. Key areas of flexibility needed to ensure overall portfolio goals are achieved include:

- Scope
  - Outreach
  - Subcontracts
  - Delivery approach
  - Partners
  - Service levels
  - Measures
  - Incentive levels
  - Goal allocation by program/sector/segment/portfolio
- Cost (Budget)
  - Allocation to programs/sector/segment
- Time (Schedule)
  - Monthly, quarterly, or annual milestones (within overall program authorization cycle)

## PLANNED PROCEDURES AND THRESHOLDS FOR COURSE CORRECTION IF PORTFOLIO IS OFF-TRACK

Portfolio management procedures, including those addressing course corrections, are described at a high level in the section above. Detailed procedures for program management and controls, including thresholds and delegation of authority with regard to forecasting and re-planning will be contained in the operating procedures manuals for the Central California Rural REN. Manuals will be finalized after CPUC authorization and prior to program launch.

## THIRD-PARTY PROGRAMS

As a Regional Energy Network, CPUC requirements for IOUs to utilize third parties to “design and implement” certain percentages of their portfolios do not apply to the Central California Rural REN. Thus, the Central California Rural REN is not proposing to include any “Third-Party Programs” in its portfolio.

## PORTFOLIO COORDINATION

### *COORDINATION WITH OTHER PAs*

Successful energy efficiency programs across overlapping regions require active and continuous cooperation among PAs, across shared customer groups and market supply chains. The Central California Rural REN is founded on such collaboration among its three California rural regions and proposes to extend such effective collaboration to IOUs, CCAs, and other RENs to ensure complementary offerings are effectively directed at rural customers located in overlapping territories. As a result of the growing importance that RENs and CCAs have in California's energy efficiency landscape, as well as the evolution of CPUC policies recognizing the need to create unique portfolio segments for customer equity and energy efficiency market support. The Central California Rural REN recognizes coordination performed at a local level is vitally important to the success of energy efficiency programs. The Central California Rural REN is committed to coordination and effective collaboration with other PAs and implementers.

### *DESCRIPTION OF HOW THE PROGRAM ADMINISTRATOR'S PORTFOLIO IS COMPLEMENTARY WITH THE PORTFOLIOS OF OTHER PROGRAM ADMINISTRATORS WITH OVERLAPPING SERVICE TERRITORY*

The Central California Rural REN possesses the skillset, experience, and position to coordinate effectively with the other PAs within the overlapping geographic regions to better serve rural customers. The Central California Rural REN's established vision is based on the premise that we will offer complementary services and advance energy efficiency adoption by equity-qualified customer groups, including geographically hard-to-reach customers who are often underrepresented and underserved by energy efficiency programs. Our vision is to support an equitable and affordable clean energy transition for underserved communities. By leveraging regional collaboration, trusted local relationships, and promoting pragmatic responses to community needs, the Central California Rural Regional Energy Network will support communities that have historically not participated in energy efficiency programs.

*DESCRIPTION OF HOW THE FOUR-YEAR PORTFOLIO AND BUDGET CONSIDERS AND COORDINATES WITH OTHER ENERGY PROGRAMS TO MITIGATE DUPLICATION OF EFFORT, UNNECESSARY SPENDING, AND CUSTOMER CONFUSION OR A CUSTOMER PARTICIPATING IN A SUBOPTIMAL PROGRAM FOR THEIR NEEDS.*

The Central California Rural REN unifies vast rural regions throughout Central California to enable greater economies of scale in program outreach and delivery to create a greater level of customer program participation. The Central California Rural REN's governance structure allows the Central California Rural REN to seamlessly coordinate with multiple PAs and program implementers. The Central California Rural REN will facilitate regularly scheduled (monthly, quarterly) coordination meetings with other PAs and implementers with the goal to eliminate customer confusion, avoid program duplication, create cost efficiencies, and help programs achieve higher levels of customer participation. As part of these program coordination meetings, the Central California Rural REN will facilitate the advancement of other objectives, including creating and leveraging local workforces throughout rural California, especially workers located in disadvantaged communities, to help deliver programs in their own communities. The Central California Rural REN's coordination will enable the sharing of best practices and lessons learned in program design and delivery among program implementers serving the represented rural communities.

The Central California Rural REN will use the annual Joint Cooperation Memorandum process to negotiate and memorialize processes and parameters of coordination among PAs to avoid duplication of programs that address a common sector in overlapping service territories.<sup>63</sup> As part of the Joint Cooperation Memorandum, the Central California Rural REN will: (1) summarize all the programs we intend to run and indicate which programs may overlap; (2) describe how we will work with other PAs so that customers are informed of all options and not steered simply to our own programs; and (3) describe how we work with the PAs to ensure customers are aware of the others' programs, where that administrator does not have a similar offering. The annual Joint Cooperation

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<sup>63</sup> D. 18-05-041, OP 38 "...Both utility program administrators and non-utility program administrators shall (1) summarize all the programs they intend to run and indicate which programs may overlap; (2) describe how each will work with the other so that customers are informed of all options and not steered simply to their own programs; and (3) describe how each will ensure customers are also aware of the others' programs, where that administrator does not have a similar offering. The program administrators must submit their first annual joint cooperation memos for approval via Tier 2 advice letters no later than August 1, 2018. The program administrators must include subsequent annual joint cooperation memos via Tier 2 advice letters no later than June 15, prior to submitting their annual budget advice letters"

Memorandum will enable the Central California Rural REN to coordinate all operational and marketing activities to avoid suboptimal program delivery.

### COORDINATION WITH OTHER DEMAND-SIDE PROGRAMS

Rural customers must be enabled to pursue a clean energy future. This requires providing rural customers opportunities for equitable transition to the clean energy future envisioned by California policymakers. The Central California Rural REN looks to empower rural customers so they can make informed energy management decisions, including the importance of adopting clean energy solutions along with energy efficiency. The Central California Rural REN is well-positioned to help rural communities navigate to this clean energy transition, by bridging the information and services gaps that have left so many rural customers in an economic and environmental divide.

The Central California Rural REN will promote other demand-side programs, with an emphasis on cleaner energy solutions, to rural customers. Given the higher levels of disadvantaged communities, especially in the San Joaquin Valley, the Central California Rural REN will actively promote the IOU's ESA and CARE offerings to residential customers. As the new market transformation efforts evolve, the Central California Rural REN will actively inform customers about the benefits of incentive stacking and the adoption of newer emerging technologies. The Central California Rural REN will coordinate with other PAs and program implementers to advance customer awareness to increase participation in other DSM offerings.

### STAKEHOLDER ENGAGEMENT IN THE DEVELOPMENT OF THE ORIGINAL RURAL REN APPLICATION

As part of the CPUC requirements, the Rural REN application included a written summary of feedback received from the CAEECC meeting and other stakeholder input, along with the response or changes that were made as a result of the input on the proposed REN.<sup>64</sup> In response, The Rural REN presented its plan to several stakeholders including a public workshop sponsored by CAEECC. Generally, the Rural REN received a positive stakeholder response to helping rural customers gain greater access to energy efficiency programs. Stakeholders understood the need to advance the CPUC equity policies and how the Rural REN could help advance these policies in rural communities throughout California. The Central California Rural REN business plan is informed by the

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<sup>64</sup> D. 19-12-021, OP 2

stakeholder feedback process initiated as part of the formation of the Rural REN. An itemized list of stakeholders' input and the Rural REN's response and adjustments made to its plan are shown in Appendix D (Stakeholder Input & Resolution).

Stakeholder engagement also included a commitment to cooperate from affected Portfolio Administrators, consistent with CPUC requirements for new RENs.<sup>65</sup> The PA letters of commitment to cooperate with the new Central California Rural REN are presented in Appendix A & B (Letters of Commitment to Coordinate & Support).

## EVALUATION, MEASUREMENT & VERIFICATION

### SUMMARY OF PLANNED EM&V STUDIES AND ACTIVITIES

The Central California Rural REN anticipates working closely with CPUC staff, IOUs and other PAs, especially other RENs, to participate and advise on development of CPUC EM&V Roadmaps and be an active participant in CPUC EM&V studies and working groups. Needs have been identified by other RENs and the Central California Rural REN will become a part of and contribute to REN-related studies. Planned activities for Central California Rural REN include supporting CPUC EM&V needs with data collection built into each of its programs, and to become active participants in the EM&V planning and implementation activities.

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<sup>65</sup> Id

## PA/ED BUDGET ALLOCATION AND JUSTIFICATION

Central California Rural REN proposes an EM&V budget for the 4-year portfolio of \$1,453,564, which is 4% of the total 4-year portfolio budget. The split of the 4% EM&V budget is 27.5% for Central California Rural REN, 72.5% for Energy Division. The Central California Rural REN plans to utilize its budget to gather and maintain data needed to support program evaluations, and as described in the preceding section.

## COST & COST RECOVERY

As the Commission directed in Decision D-24.09.031 the Central California Rural REN will use the following funding split:

### *2024-2027 Cost and Cost Recovery*

Central California Rural REN Budget Allocations	Electricity		Natural Gas		Total
	PG&E	SCE	PG&E	SoCalGas	
2024-2027	60%	20%	14%	6%	100%

TABLE 63

## SUMMARY OF COSTS AT PORTFOLIO-LEVEL

Summaries of Central California Rural REN's proposed portfolio costs are included in this business plan and Program Portfolio (Application) Exhibit One and Two. Detailed breakdowns of costs are included in attached spreadsheets and budget narrative "Exhibit Four: Central California Rural REN Responses, Pursuant To Energy Division Templates" as provided in CPUC Decision 21-05-031<sup>66</sup>

<sup>66</sup> D.21-05-031, OP 5 "All current energy efficiency program administrators shall file applications on February 15, 2022 for program year 2024, and every four years after that, containing the following elements: (a) A business plan to cover an eight-year period. The business plan shall serve as a strategic plan for the energy efficiency efforts of the program administrator, and shall contain sector-level strategies, metrics, and an eight-year budget. (b) A four-year program portfolio, beginning with program year 2024. This portion of the application shall contain: detailed sector and program strategies; annual budgets, totaling to a four-year revenue requirement; cost-effectiveness showings over the four-year period; and implementation plans, or links to them, for all programs that are currently operating or planned to operate during the four-year portfolio period, with the exception of third party programs where the contract has not yet been awarded. (c) The technical inputs given in Table 2 of this decision."; Id, OP 8 "When all program administrators file their combined business plan and four-year portfolio applications, the funding proposals shall be zero-based, justifying all expenses for each year of the four-year period, after analyzing each function within the budget for its needs and costs."

**PA'S APPROACH TO CLASSIFICATION OF WHICH UNSPENT FUNDS ARE DESIGNATED  
"COMMITTED" AND THUS NOT APPLIED TO REDUCE RECOVERY IN FUTURE YEARS**

The Central California Rural REN will use procedures acceptable to the CPUC to classify unspent funds as "committed". We anticipate we will have unspent but committed funds in the incentive programs, finance programs and in outsourced services or implementation contracts that span reporting/authorization cycles.



## EXHIBIT THREE: APPENDICES

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- A. Letters of Commitment to Cooperate
- B. Letters of Support
- C. Stakeholder Feedback
- D. CAEECC Stakeholder Presentation Slide Deck and Response to Questions
- E. Figures, Tables, and Photos

## APPENDIX A: LETTERS OF COMMITMENT TO COOPERATE

There have been no changes to Appendix A as compared to the original application or Notice of Availability.

Per RuralREN's Notice of Availability dated March 4, 2022, Appendix A: Letters of Commitment to Cooperate are made available online within the RuralREN EE Portfolio Application:

<https://ruralhtr.org/regulatory-filings>,

Letters of Commitment to Cooperate can be found here, beginning on page 143.

<https://acrobat.adobe.com/id/urn:aaid:sc:va6c2:120152d5-c39f-482f-9839-2fa92566e338>

## APPENDIX B: LETTERS OF SUPPORT

There have been no changes to Appendix B as compared to the original application or Notice of Availability.

Per RuralREN's Notice of Availability dated March 4, 2022, Appendix B: Letters of Support are made available online here:

<https://ruralhtr.org/regulatory-filings>,

Appendix B: Letters of Support begin on page 156 of the originally filed RuralREN EE Portfolio Application.

<https://acrobat.adobe.com/id/urn:aaid:sc:va6c2:120152d5-c39f-482f-9839-2fa92566e338>

Letters of support can also be accessed here:

<https://issuu.com/ruralhardtoreach/stacks/13ea008007ce4ec092276e2b62618b58>

Letters of support received after RuralREN was submitted can be found here:

<https://issuu.com/ruralhardtoreach/stacks/d322f4ca5ce94e029becbfd1e5628941>

## APPENDIX C: STAKEHOLDER FEEDBACK

There have been no changes to Appendix C as compared to the original application or Notice of Availability.

Per RuralREN's Notice of Availability dated March 4, 2022, Appendix C: Stakeholder Feedback is made available online within the RuralREN EE Portfolio Application:

<https://ruralhtr.org/regulatory-filings>,

Stakeholder feedback can be found here, beginning on page 214.

<https://acrobat.adobe.com/id/urn:aaid:sc:va6c2:120152d5-c39f-482f-9839-2fa92566e338>

## APPENDIX D: PRESENTATION TO CAEECC & STAKEHOLDERS

There have been no changes to Appendix D as compared to the original application or Notice of Availability.

Per RuralREN's Notice of Availability dated March 4, 2022, Appendix D: Presentation to CAEECC & Stakeholders is made available online within the RuralREN EE Portfolio Application:

<https://ruralhtr.org/regulatory-filings>,

Appendix D can be found here, beginning on page 219.

<https://acrobat.adobe.com/id/urn:aaid:sc:va6c2:120152d5-c39f-482f-9839-2fa92566e338>

## APPENDIX E: FIGURES, TABLES, AND PHOTOS

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## PHOTOGRAPHS

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## APPENDIX F: CET RUN RECEIPTS

### PROGRAM YEAR 2024

CEDARS CET\_UI Run Receipt

Submitted: 18:25:44 on 13 Dec 2024

By: Felix Monterroso

- Job ID: 95726
- Filename: CCR REN\_2024\_Portfolio.zip
- CET version: 24.1
- Market Effects: 5%
- Avoided Cost Version: 2024
- First Year: 2024

#### \* Run Summary \*

- TRC: 0.0
- PAC: 0.0
- TRC (no admin): 0.0
- PAC (no admin): 0.0
- RIM: 0.0
- Budget: \$2,930,000.00
- TotalSystemBenefit: \$0.00
- ElecBen: \$0.00
- GasBen: \$0.00
- WaterEnergyBen: \$0.00
- OtherBen: \$0.00
- TRCCost: \$2,930,000.00
- PACCost: \$2,930,000.00
- ElecSupplyCost: \$0.00
- GasSupplyCost: \$0.00
- WaterEnergyCost: \$0.00
- OtherCost: \$0.00

## PROGRAM YEAR 2025

### CEDARS CET\_UI Run Receipt

Submitted: 19:19:27 on 13 Dec 2024

By: Felix Monterroso

- Job ID: 95729
- Filename: CCR REN\_2025\_Portfolio.zip
- CET version: 24.1
- Market Effects: 5%
- Avoided Cost Version: 2024
- First Year: 2025

#### \* Run Summary \*

- TRC: 0.3
- PAC: 0.3
- TRC (no admin): 1.98
- PAC (no admin): 2.07
- RIM: 0.34
- Budget: \$10,921,551.00
- TotalSystemBenefit: \$2,534,596.11
- ElecBen: \$69,834.52
- GasBen: \$3,521,556.89
- WaterEnergyBen: \$829.02
- OtherBen: \$0.00
- TRCCost: \$12,016,263.25
- PACCost: \$11,939,494.23
- ElecSupplyCost: \$994,966.72
- GasSupplyCost: \$0.00
- WaterEnergyCost: \$0.00
- OtherCost: \$62,657.60

## PROGRAM YEAR 2026

### CEDARS CET\_UI Run Receipt

Submitted: 19:52:29 on 13 Dec 2024

By: Felix Monterroso

- Job ID: 95730
- Filename: CCR REN\_2026\_Portfolio.zip
- CET version: 24.1
- Market Effects: 5%
- Avoided Cost Version: 2024
- First Year: 2026

#### \* Run Summary \*

- TRC: 0.25 (Value was rounded down to 0.24 from 0.2449 in supplemental tables)
- PAC: 0.25
- TRC (no admin): 2.67
- PAC (no admin): 2.92
- RIM: 0.28
- Budget: \$11,237,517.00
- TotalSystemBenefit: \$2,544,594.46
- ElecBen: \$-646,532.76
- GasBen: \$3,482,930.07
- WaterEnergyBen: \$919.19
- OtherBen: \$0.00
- TRCCost: \$11,580,574.35
- PACCost: \$11,490,558.39
- ElecSupplyCost: \$230,307.54
- GasSupplyCost: \$0.00
- WaterEnergyCost: \$0.00
- OtherCost: \$62,414.49

## PROGRAM YEAR 2027

### CEDARS CET\_UI Run Receipt

Submitted: 20:09:40 on 13 Dec 2024

By: Felix Monterroso

- Job ID: 95731
- Filename: CCR REN\_2027\_Portfolio.zip
- CET version: 24.1
- Market Effects: 5%
- Avoided Cost Version: 2024
- First Year: 2027

#### \* Run Summary \*

- TRC: 0.25
- PAC: 0.25
- TRC (no admin): 2.71
- PAC (no admin): 2.95
- RIM: 0.28
- Budget: \$11,249,932.00
- TotalSystemBenefit: \$2,574,235.91
- ElecBen: \$-607,191.29
- GasBen: \$3,473,425.84
- WaterEnergyBen: \$932.34
- OtherBen: \$0.00
- TRCCost: \$11,591,569.69
- PACCost: \$11,503,182.93
- ElecSupplyCost: \$233,259.98
- GasSupplyCost: \$0.00
- WaterEnergyCost: \$0.00
- OtherCost: \$59,671.00

Attachment B:

Energy Efficiency Portfolio Application CCR REN Responses,  
Pursuant to Energy Division Templates  
(Exhibit 4)

# EXHIBIT FOUR: CENTRAL CALIFORNIA RURAL REGIONAL ENERGY NETWORK RESPONSES, PURSUANT TO ENERGY DIVISION TEMPLATES

## EE APPLICATION ATTACHMENT TABLES

### Attachment A.2024-2031: Central California Rural REN Applications Tables for 2024-2031

#### Section Contents:

Table 1	Bill Payer Impacts
Table 2	Rates Rev
Table 3.1	Funding Source Summary
Table 3.2	Funding Source
Table 4.1	Program Budget 2024-2027
Table 4.2	Program Budget 2028-2031
Table 4.3	Program Changes
Table 5	Commitments
Table 6	Statewide Programs
Table 7.1	PA 2024-2031 Budget Savings By Segment
Table 7.2	PA 2024-2031 Budget Savings By Sector
Table 7.3	PA PY Budget Savings
Table 8	Cap and Target
Table 9	Portfolio Summary
Table 10	Portfolio FTE
Table 11	Residential
Table 12	Commercial
Table 13	Industrial
Table 14	Agricultural
Table 15	Public Sector
Table 16	Cross Cutting
Table 17	BP Metrics
Table 18.1	Equity Segment Metrics
Table 18.2	Market Support Segment Metrics

Pa Name: Central California Rural REN  
Budget Year: 2024-2027  
(This Table applies only to the IOU PAs)

Table 1 -Bill Payer Impacts (based on program savings forecasted for the year)				
	Electric Average Rate (Res and Non-Res) \$/kwh	Gas Average Rate (Res and Non-Res) \$/therm	Total Average Annual Bill Savings by Year (\$)	Total Average Lifecycle Bill Savings (\$)
Present Rates -				
2021				
2022				
2023				
2024				
2025				
2026				
2027				
2028				
2029				
2030				
2031				

\* = Based on [relevant date] current effective rates

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

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

## Table 2

Page 1 of 1

(This Table applies only to the IOU PAs)

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

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



Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

Table 3.1  
Page 1 of 1

Pa Name: Central California Rural REN  
Budget Year: 2024-2027  
Table 3.1 - PA 2024-2027 Funding Source Summary

	Spending Budget Request	Electric Procurement	% Electric	Gas	% Gas
2024	\$ 2,930,000	\$ 2,344,000	80.0%	\$ 586,000	20.0%
2025	\$ 10,921,551	\$ 8,737,241	80.0%	\$ 2,184,310	20.0%
2026	\$ 11,237,517	\$ 8,990,014	80.0%	\$ 2,247,503	20.0%
2027	\$ 11,249,932	\$ 8,999,946	80.0%	\$ 2,249,986	20.0%
2028	\$ -	\$ -		\$ -	
2029	\$ -	\$ -		\$ -	
2030	\$ -	\$ -		\$ -	
2031	\$ -	\$ -		\$ -	
Total	\$ 36,339,000	\$ 29,071,200		\$ 7,267,800	

	PA Revenue Requirement Request (Cost Recovery)	Electric Procurement	% Electric	Gas	% Gas
2024	\$ 2,930,000	\$2,344,000	80.0%	\$ 586,000	20.0%
2025	\$ 10,921,551	\$8,737,241	80.0%	\$ 2,184,310	20.0%
2026	\$ 11,237,517	\$8,990,014	80.0%	\$ 2,247,503	20.0%
2027	\$ 11,249,932	\$8,999,946	80.0%	\$ 2,249,986	20.0%
2028	\$ -	\$ -		\$ -	
2029	\$ -	\$ -		\$ -	
2030	\$ -	\$ -		\$ -	
2031	\$ -	\$ -		\$ -	
Total	\$ 36,339,000	\$29,071,200		\$ 7,267,800	

	PA (IOU+CCAs+RENS ) Recovery Budget	Electric Procurement	% Electric	Gas	% Gas
2024	\$ 2,930,000	\$ 2,344,000	80.0%	\$ 586,000	20.0%
2025	\$ 10,921,551	\$ 8,737,241	80.0%	\$ 2,184,310	20.0%
2026	\$ 11,237,517	\$ 8,990,014	80.0%	\$ 2,247,503	20.0%
2027	\$ 11,249,932	\$ 8,999,946	80.0%	\$ 2,249,986	20.0%
2028	\$ -	\$ -		\$ -	
2029	\$ -	\$ -		\$ -	
2030	\$ -	\$ -		\$ -	
2031	\$ -	\$ -		\$ -	
Total	\$ 36,339,000	\$ 29,071,200		\$ 7,267,800	

4 Year Funding Sources - RENs/CCAs

Year	PG&E		SDG&E		SCE		SCG	
	Electric \$	Gas \$	Electric \$	Gas \$	Electric \$	Gas \$	Electric \$	Gas \$
2024	\$ 1,758,000	\$ 410,200			\$ 586,000		\$ 175,800	
2025	\$ 6,552,931	\$ 1,529,017			\$ 2,184,310		\$ 655,293	
2026	\$ 6,742,510	\$ 1,573,252			\$ 2,247,503		\$ 674,251	
2027	\$ 6,749,959	\$ 1,574,990			\$ 2,249,986		\$ 674,996	
2028								
2029								
2030								
2031								
Total	\$ 21,803,400	\$ 5,087,459	\$ -		\$ 7,267,799		\$ 2,180,340	

4 Year Funding Sources - Central California Rural REN [1]

	PG&E		SDG&E		SCE		SCG			Budget	Allocations	PG&E	SCE	SCG
	Electric %	Gas %	Electric %	Gas %	Electric %	Gas %	Electric %	Gas %						
Electric %	75%				25%				100%	\$ 29,071,199	80%	60%	20%	0%
Gas %		70%					30%		100%	\$ 7,267,799	20%	14%	0%	6%
									Total	\$ 36,338,998	100%	74%	20%	6%

[1] - Per D.24-09-031, OP 8 states, "Central California Regional Energy Network funding shall come 80 percent from electric rates (75 percent of which shall come from Pacific Gas and Electric Company (PG&E) rates and 25 percent of which shall come from Southern California Edison Company rates) and 20 percent from natural gas rates (70 percent of which shall come from Per D.24-09-041, OP 8 states 'PG&E rates and 30 percent of which shall come from Southern California Gas Company rates).'"

Pa Name: Central California Rural REN  
Budget Year: 2024-2027

Table 3 - Budget and Cost Recovery by Funding Source

Table 3a - PA Spending Budget Request by PA EE Programs and EM&V	Source is Table 4				Source is Table 7			
	2024	2025	2026	2027	2028	2029	2030	2031
Annual PA Spending Budget Request (Program and EM&V total) <sup>1, 2</sup>	\$ 2,930,000	\$ 10,921,551	\$ 11,237,517	\$ 11,249,932	\$ -	\$ -	\$ -	\$ -
PA Spending Budget Request (PA Program and EM&V) (same as row above, used for reference)	\$ 2,930,000	\$ 10,921,551	\$ 11,237,517	\$ 11,249,932	\$ -	\$ -	\$ -	\$ -

Table 3b - Budget by Funding Source

Portfolio Budget (Before Carryover)	2024 Budget	2024 %Allocation	2025 Budget	2025 %Allocation	2026 Budget	2026 %Allocation	2027 Budget	2027 %Allocation	2028 Budget	2028 %Allocation	2029 Budget	2029 %Allocation	2030 Budget	2030 %Allocation	2031 Budget	2031 %Allocation
Electric Procurement EE Funds	\$ 2,344,000	80%	\$ 8,737,241	80%	\$ 8,990,014	80%	\$ 8,999,946	80%	\$ -		\$ -		\$ -		\$ -	
Gas PPP Surcharge Funds	\$ 586,000	20%	\$ 2,184,310	20%	\$ 2,247,503	20%	\$ 2,249,986	20%	\$ -		\$ -		\$ -		\$ -	
Total Funds	\$ 2,930,000		\$ 10,921,551		\$ 11,237,517		\$ 11,249,932		\$ -		\$ -		\$ -		\$ -	

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

Authorized Funding in Rates (including Unspent/Uncommitted Funds )	2024 Revenue Requirement	2024 %Allocation after Carryover	2025 Revenue	2025 %Allocation	2026 Revenue	2026 %Allocation	2027 Revenue Requirement	2027 %Allocation	2028 Revenue	2028 %Allocation	2029 Revenue	2029 %Allocation	2030 Revenue	2030 %Allocation	2031 Revenue	2031 %Allocation
Electric Procurement EE Funds	\$ 2,344,000	80%	\$ 8,737,241	80%	\$ 8,990,014	80%	\$ 8,999,946	80%	\$ -		\$ -		\$ -		\$ -	
Gas PPP Surcharge Funds	\$ 586,000	20%	\$ 2,184,310	20%	\$ 2,247,503	20%	\$ 2,249,986	20%	\$ -		\$ -		\$ -		\$ -	
Total Funds	\$ 2,930,000		\$ 10,921,551		\$ 11,237,517		\$ 11,249,932		\$ -		\$ -		\$ -		\$ -	

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

Table 3.2  
Page 2 of 2

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

Program Unspent/Uncommitted Funds	2024			2025			2026			2027			2028			2029			2030			2031		
	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total
Pre-2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

EM&V Unspent/Uncommitted Funds	2024			2025			2026			2027			2028			2029			2030			2031		
	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total
Pre-2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Total Unspent/Uncommitted Funds	2024			2025			2026			2027			2028			2029			2030			2031		
	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total	Electric	Gas	Total
Pre-2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Table 3e - Total Requested Recovery

	2024				2025				2026				2027				2028				2029				2030				2031			
	Demand	Energy Efficiency			Demand	Energy Efficiency			Demand	Energy Efficiency			Demand	Energy Efficiency			Demand	Energy Efficiency			Demand	Energy Efficiency			Demand	Energy Efficiency						
		Electric	Natural Gas	Total Energy		Electric	Natural Gas	Total Energy		Electric	Natural Gas	Total Energy		Electric	Natural Gas	Total Energy		Electric	Natural Gas	Total Energy		Electric	Natural Gas	Total Energy		Electric	Natural Gas	Total Energy				
Program Funds - PA <sup>1</sup>	\$ -	\$ 2,250,240	\$ 562,560	\$ 2,812,800	\$ -	\$ 8,387,750	\$ 2,096,937	\$ 10,484,687	\$ -	\$ 8,630,413	\$ 2,157,603	\$ 10,788,016	\$ -	\$ 8,639,946	\$ 2,159,987	\$ 10,799,933	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Program Funds - REN	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Program Funds - CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
EM&V <sup>4</sup>	\$ -	\$ 93,760	\$ 23,440	\$ 117,200	\$ -	\$ 349,491	\$ 87,373	\$ 436,864	\$ -	\$ 359,601	\$ 89,900	\$ 449,501	\$ -	\$ 359,999	\$ 90,000	\$ 449,999	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Budget Total	\$ -	\$ 2,344,000	\$ 586,000	\$ 2,930,000	\$ -	\$ 8,737,241	\$ 2,184,310	\$ 10,921,551	\$ -	\$ 8,990,014	\$ 2,247,503	\$ 11,237,517	\$ -	\$ 8,999,946	\$ 2,249,986	\$ 11,249,932	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			

Notes:  
1 Authorized budget excludes reductions from past unspent funds, carryover and is consistent with funding approved in D.24-09-031.  
2 REN information provided is consistent with D.24-09-031.  
3 Program Funds represents the total program budget, excluding EM&V.  
4 This represent total ED+REN EM&V

**Table 4 – Budget, Spent, Unspent, Carryover Details <sup>a</sup>**

Sort by Segment

[illegible]

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

Table 4.1

Page 2 of 5

Pa Name: Central California Rural REN  
Budget Year: 2024-2027

Table 4 – Budget, Spent, Unspent, Carryover Details <sup>1</sup>

										2024										
New/Existing Program #	Discontinued Program #	Program Name	Administrative	Marketing/ Outreach	Direct Implementation Non-Incentive	Incentive/ Rebate	2024 PA Spending Budget Request	Percent Change from Prior Year	PA Pre-2024 Uncommit- ed and Unspent Carryover Balance	2024 PA Revenue Requirement Request (Cost Recovery)	First Year Net KWH	First Year Net KW	First Year Net Therms	First Year Net Electric CO2e	First Year Net Gas CO2e	Lifecycle Net KWH	Lifecycle Net Therms	Lifecycle Net Electric CO2e	Lifecycle Net Gas CO2e	Lifecycle Net CO2e from low-GWP Measures
CCR-COM-001		Commercial Resource Acquisition Program	\$ 2,664	\$ 3,995	\$ 53,285	\$ -	\$ 59,944	0%	\$ -	\$ 59,944										
CCR-PUB-001		Public Equity Program	\$ 11,865	\$ 17,797	\$ 237,298	\$ -	\$ 266,960	0%	\$ -	\$ 266,960										
CCR-RES-001		Residential Equity Program	\$ 50,750	\$ 76,125	\$ 1,015,000	\$ -	\$ 1,141,875	0%	\$ -	\$ 1,141,875										
CCR-WET-001		Workforce Education and Training Equity Program	\$ 27,571	\$ 41,356	\$ 551,419	\$ -	\$ 620,346	0%	\$ -	\$ 620,346										
CCR-C&S-001		Codes and Standards Program	\$ 24,350	\$ 36,525	\$ 487,000	\$ -	\$ 547,875	0%	\$ -	\$ 547,875										
CCR-FIN-001		Finance Equity Program	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ -	\$ -										
CCR-PS-RA		Portfolio Support: Resource Acquisition	\$ 3,996	\$ -	\$ -	\$ -	\$ 3,996	0%	\$ -	\$ 3,996										
CCR-PS-Equity		Portfolio Support: Equity	\$ 135,279	\$ -	\$ -	\$ -	\$ 135,279	0%	\$ -	\$ 135,279										
CCR-PS-C&S		Portfolio Support: Codes and Standards	\$ 36,525	\$ -	\$ -	\$ -	\$ 36,525	0%	\$ -	\$ 36,525										
		PA PROGRAM TOTAL	\$ 293,000	\$ 175,798	\$ 2,344,002	\$ -	\$ 2,812,800	0%	\$ -	\$ 2,812,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		EM&V (PA & ED Portions) Total <sup>2</sup>																		
		EM&V - PA					\$ 32,230	#DIV/0!	\$ -	\$ 32,230										
		EM&V - ED					\$ 84,970	#DIV/0!	\$ -	\$ 84,970										
		EM&V TOTAL					\$ 117,200	#DIV/0!	\$ -	\$ 117,200										
		PA Program and EM&V Total	\$ 293,000	\$ 175,798	\$ 2,344,002	\$ -	\$ 2,930,000.00	#DIV/0!	\$ -	\$ 2,930,000	-	-	-	-	-	-	-	-	-	-
		PA Spending Budget Request (PA Program and EM&V)	\$ 293,000	\$ 175,798	\$ 2,344,002	\$ -	\$ 2,930,000	#DIV/0!	\$ -	\$ 2,930,000	-	-	-	-	-	-	-	-	-	-
		Financing Pilot Programs																		
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
		Financing Pilot Programs Total	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	-	-	-	-	-	-	-	-	-	-
		ME&O & ESA																		
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										

Notes: (PA to add as needed, e.g., relevant advice letter references, decision references and any other needed explanations.)

- CCREN 2024-2027 Authorized Budget per D.24-09-041, OP 6, Table 5.
- CCREN EMV Budget includes REN and CPUC EMV budgets per CPUC Energy Division.

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

Table 4.1

Page 3 of 5

Pa Name: Central California Rural REN  
Budget Year: 2024-2027

Table 4 – Budget, Spent, Unspent, Carryover Details \*

			2025																	
New/Existing Program #	Discontinued Program #	Program Name	Administrative	Marketing/ Outreach	Direct Implementatio n Non-Incentive	Incentive/Rebat e	2025 PA Spending Budget Request	Percent Change from Prior Year	PA Pre-2024 Uncommitt ed and Unspent Carryover Balance	2025 PA Revenue Requirement Request (Cost Recovery)	First Year Net KWH	First Year Net KW	First Year Net Therms	First Year Net Electric CO2e	First Year Net Gas CO2e	Lifecycle Net KWH	Lifecycle Net Therms	Lifecycle Net Electric CO2e	Lifecycle Net Gas CO2e	Lifecycle Net CO2e from low-GWP Measures
CCR-COM-001		Commercial Resource Acquisition Program	\$ 102,416	\$ 153,572	\$ 1,330,631	\$ 717,684.16	\$ 2,304,303	3744%	\$ -	\$ 2,304,303	(1,412,385)	13.19	225,430	(471)	1,197	(14,404,343)	2,493,575	(4,232)	13,241	
CCR-PUB-001		Public Equity Program	\$ 13,250	\$ 19,875	\$ 265,000	\$ -	\$ 298,125	12%	\$ -	\$ 298,125										
CCR-RES-001		Residential Equity Program	\$ 166,450	\$ 249,675	\$ 3,329,000	\$ -	\$ 3,745,125	228%	\$ -	\$ 3,745,125										
CCR-WET-001		Workforce Education and Training Equity Program	\$ 121,747	\$ 182,623	\$ 2,434,967	\$ -	\$ 2,739,337	342%	\$ -	\$ 2,739,337										
CCR-C&S-001		Codes and Standards Program	\$ 33,000	\$ 49,500	\$ 660,000	\$ -	\$ 742,500	36%	\$ -	\$ 742,500										
CCR-FIN-001		Finance Equity Program	\$ -	\$ -	\$ -	\$ -	\$ -	#DIV/0!	\$ -	\$ -										
CCR-PS-RA		Portfolio Support: Resource Acquisition	\$ 153,624	\$ -	\$ -	\$ -	\$ 153,624	3744%	\$ -	\$ 153,624										
CCR-PS-Equity		Portfolio Support: Equity	\$ 452,173	\$ -	\$ -	\$ -	\$ 452,173	234%	\$ -	\$ 452,173										
CCR-PS-C&S		Portfolio Support: Codes and Standards	\$ 49,500	\$ -	\$ -	\$ -	\$ 49,500	36%	\$ -	\$ 49,500										
		PA PROGRAM TOTAL	\$ 1,092,160	\$ 655,245	\$ 8,019,598	\$ 717,684	\$ 10,484,687	273%	\$ -	\$ 10,484,687	(1,412,385)	13.19	225,430	(471)	1,197	(14,404,343)	2,493,575	(4,232)	13,241	-
		EM&V (PA & ED Portions) Total <sup>2</sup>																		
		EM&V - PA					\$ 120,138	273%	\$ -	\$ 120,138										
		EM&V - ED					\$ 316,726	273%	\$ -	\$ 316,726										
		EM&V TOTAL					\$ 436,864	273%	\$ -	\$ 436,864										
		PA Program and EM&V Total	\$ 1,092,160	\$ 655,245	\$ 8,019,598	\$ 717,684	\$ 10,921,551.00	273%	\$ -	\$ 10,921,551	(1,412,385.26)	13.19	225,430	(471)	1,197	(14,404,343)	2,493,575	(4,232)	13,241	-
		PA Spending Budget Request (PA Program and EM&V)	\$ 1,092,160	\$ 655,245	\$ 8,019,598	\$ 717,684	\$ 10,921,551	273%	\$ -	\$ 10,921,551	(1,412,385)	13.19	225,430	(471)	1,197	(14,404,343)	2,493,575	(4,232)	13,241	-
		Financing Pilot Programs																		
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
		Financing Pilot Programs Total	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	-	-	-	-	-	-	-	-	-	-
		ME&O & ESA																		
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										

Notes: (PA to add as needed, e.g., relevant advice letter references, decision references and any other needed explanations.)

1. CCREN 2024-2027 Authorized Budget per D.24-09-041, OP 6, Table 5.
2. CCREN EMV Budget includes REN and CPUC EMV budgets per CPUC Energy Division.

Pa Name: Central California Rural REN  
Budget Year: 2024-2027

Table 4 – Budget, Spent, Unspent, Carryover Details \*

			2026																	
New/Existing Program #	Discontinued Program #	Program Name	Administrative	Marketing/Outreach	Direct Implementation Non-Incentive	Incentive/Rebate	2026 PA Spending Budget Request	Percent Change from Prior Year	PA Pre-2024 Uncommitted and Unspent Carryover Balance	2026 PA Revenue Requirement Request (Cost Recovery)	First Year Net KWH	First Year Net KW	First Year Net Therms	First Year Net Electric CO2e	First Year Net Gas CO2e	Lifecycle Net KWH	Lifecycle Net Therms	Lifecycle Net Electric CO2e	Lifecycle Net Gas CO2e	Lifecycle Net CO2e from low-GWP Measures
CCR-COM-001		Commercial Resource Acquisition Program	\$ 102,037	\$ 153,055	\$ 1,323,048	\$ 717,683	\$ 2,295,823	0%	\$ -	\$ 2,295,823	(1,180,312)	13.27	188,895	(398)	1,003	(14,282,997)	2,358,088	(3,998)	12,521	
CCR-PUB-001		Public Equity Program	\$ 13,320	\$ 19,980	\$ 266,400	\$ -	\$ 299,700	1%	\$ -	\$ 299,700										
CCR-RES-001		Residential Equity Program	\$ 166,050	\$ 249,075	\$ 3,321,000	\$ -	\$ 3,736,125	0%	\$ -	\$ 3,736,125										
CCR-WET-001		Workforce Education and Training Equity Program	\$ 121,772	\$ 182,658	\$ 2,435,440	\$ -	\$ 2,739,870	0%	\$ -	\$ 2,739,870										
CCR-C&S-001		Codes and Standards Program	\$ 32,822	\$ 49,233	\$ 656,442	\$ -	\$ 738,497	-1%	\$ -	\$ 738,497										
CCR-FIN-001		Finance Equity Program	\$ 13,500	\$ 20,250	\$ 270,000	\$ -	\$ 303,750	#DIV/0!	\$ -	\$ 303,750										
CCR-PS-RA		Portfolio Support: Resource Acquisition	\$ 153,055	\$ -	\$ -	\$ -	\$ 153,055	0%	\$ -	\$ 153,055										
CCR-PS-Equity		Portfolio Support: Equity	\$ 471,963	\$ -	\$ -	\$ -	\$ 471,963	4%	\$ -	\$ 471,963										
CCR-PS-C&S		Portfolio Support: Codes and Standards	\$ 49,233	\$ -	\$ -	\$ -	\$ 49,233	-1%	\$ -	\$ 49,233										
		PA PROGRAM TOTAL	\$ 1,123,752	\$ 674,251	\$ 8,272,330	\$ 717,683	\$ 10,788,016	3%	\$ -	\$10,788,016	(1,180,312)	13.27	188,895	(398)	1,003	(14,282,997)	2,358,088	(3,998)	12,521	-
		EM&V (PA & ED Portions) Total <sup>2</sup>																		
		EM&V - PA					\$ 123,613	3%	\$ -	\$ 123,613										
		EM&V - ED					\$ 325,888	3%	\$ -	\$ 325,888										
		EM&V TOTAL					\$ 449,501	3%	\$ -	\$ 449,501										
		PA Program and EM&V Total	\$ 1,123,752	\$ 674,251	\$ 8,272,330	\$ 717,683	\$ 11,237,517	3%	\$ -	\$11,237,517	(1,180,312)	13.27	\$ 188,895	\$ (398)	\$ 1,003	\$(14,282,997)	2,358,088	(3,998)	12,521	-
		PA Spending Budget Request (PA Program and EM&V)	\$ 1,123,752	\$ 674,251	\$ 8,272,330	\$ 717,683	\$ 11,237,517	\$ 0	\$ -	\$11,237,517	(1,180,312)	13.27	\$ 188,895	\$ (398)	\$ 1,003	\$(14,282,997)	\$2,358,088	\$ (3,998)	\$ 12,521	\$ -
		Financing Pilot Programs																		
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
		Financing Pilot Programs Total	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	-	-	-	-	-	-	-	-	-	-
		ME&O & ESA																		
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										

Notes: (PA to add as needed, e.g., relevant advice letter references, decision references and any other needed explanations.)

1. CCREN 2024-2027 Authorized Budget per D.24-09-041, OP 6, Table 5.  
2. CCREN EMV Budget includes REN and CPUC EMV budgets per CPUC Energy Division.

Pa Name: Central California Rural REN  
Budget Year: 2024-2027

Table 4 – Budget, Spent, Unspent, Carryover Details \*

			2027																	
New/Existing Program #	Discontinued Program #	Program Name	Administrative	Marketing/ Outreach	Direct Implementatio n Non-Incentive	Incentive/Rebat e	2027 PA Spending Budget Request	Percent Change from Prior Year	PA Pre-2024 Uncommitt ed and Unspent Carryover Balance	2027 PA Revenue Requirement Request (Cost Recovery)	First Year Net KWH	First Year Net KW	First Year Net Therms	First Year Net Electric CO2e	First Year Net Gas CO2e	Lifecycle Net KWH	Lifecycle Net Therms	Lifecycle Net Electric CO2e	Lifecycle Net Gas CO2e	Lifecyle Net CO2e from low-GWP Measures
CCR-COM-001		Commercial Resource Acquisition Program	\$ 101,594	\$ 152,356	\$ 1,314,198	\$ 717,684	\$ 2,285,832	0%	\$ -	\$ 2,285,832	(1,124,907)	13.73	179,444	(358)	953	(13,575,159)	2,220,528	(3,692)	11,791	
CCR-PUB-001		Public Equity Program	\$ 13,530	\$ 20,295	\$ 270,600	\$ -	\$ 304,425	2%	\$ -	\$ 304,425										
CCR-RES-001		Residential Equity Program	\$ 166,250	\$ 249,375	\$ 3,325,000	\$ -	\$ 3,740,625	0%	\$ -	\$ 3,740,625										
CCR-WET-001		Workforce Education and Training Equity Program	\$ 122,426	\$ 183,641	\$ 2,448,549	\$ -	\$ 2,754,616	1%	\$ -	\$ 2,754,616										
CCR-C&S-001		Codes and Standards Program	\$ 32,699	\$ 49,046	\$ 653,942	\$ -	\$ 735,687	0%	\$ -	\$ 735,687										
CCR-FIN-001		Finance Equity Program	\$ 13,500	\$ 20,250	\$ 270,000	\$ -	\$ 303,750	0%	\$ -	\$ 303,750										
CCR-PS-RA		Portfolio Support: Resource Acquisition	\$ 152,391	\$ -	\$ -	\$ -	\$ 152,391	0%	\$ -	\$ 152,391										
CCR-PS-Equity		Portfolio Support: Equity	\$ 473,561	\$ -	\$ -	\$ -	\$ 473,561	0%	\$ -	\$ 473,561										
CCR-PS-C&S		Portfolio Support: Codes and Standards	\$ 49,046	\$ -	\$ -	\$ -	\$ 49,046	0%	\$ -	\$ 49,046										
		PA PROGRAM TOTAL	\$ 1,124,997	\$ 674,963	\$ 8,282,289	\$ 717,684	\$ 10,799,933	\$ 0	\$ -	\$10,799,933	(1,124,907)	13.73	179,444	(358)	953	(13,575,159)	2,220,528	(3,692)	11,791	-
		EM&V (PA & ED Portions) Total <sup>2</sup>																		
		EM&V - PA					\$ 123,749.73	0%	\$ -	\$ 123,750										
		EM&V - ED					\$ 326,249	0%	\$ -	\$ 326,249										
		EM&V TOTAL					\$ 449,999	0%	\$ -	\$ 449,999										
		PA Program and EM&V Total	\$ 1,124,997	\$ 674,963	\$ 8,282,289	\$ 717,684	\$ 11,249,932	0%	\$ -	\$11,249,932	(1,124,907)	13.73	179,444	(358)	953	(13,575,159)	2,220,528	(3,692)	11,791	-
		PA Spending Budget Request (PA Program and EM&V)	\$ 1,124,997	\$ 674,963	\$ 8,282,289	\$ 717,684	\$ 11,249,932	0%	\$ -	\$11,249,932	(1,124,907)	13.73	179,444	(358)	953	(13,575,159)	2,220,528	(3,692)	11,791	-
		Financing Pilot Programs																		
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										
		Financing Pilot Programs Total	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	-	-	-	-	-	-	-	-	-	-
		ME&O & ESA																		
							\$ -			\$ -										
							\$ -			\$ -										
							\$ -			\$ -										

Notes: (PA to add as needed, e.g., relevant advice letter references, decision references and any other needed explanations.)

1. CCREN 2024-2027 Authorized Budget per D.24-09-041, OP 6, Table 5.  
2. CCREN EMV Budget includes REN and CPUC EMV budgets per CPUC Energy Division.



Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

Table 4.2

Page 1 of 1

Project Name: Central California Rural REN  
Budget Year: 2024-2031

Table 4 – Budget, Spent, Unspent, Carryover Details<sup>1</sup>

New/Existing Program #	Discontinued Program #	Sector Name	Portfolio Segment	2027 PA Spending Budget Request	2028 Baseline Percentage Change	2029										2030										2031																						
						2028 PA Spending Budget Request	First Year Net kWh	First Year Net kW	First Year Net Thermal (MMBtu)	First Year Net Electric CO2e	First Year Net Gas CO2e	Lifecycle Net kWh	Lifecycle Net Thermal (MMBtu)	Lifecycle Net Electric CO2e	Lifecycle Net Gas CO2e	2029 PA Spending Budget Request	First Year Net kWh	First Year Net kW	First Year Net Thermal (MMBtu)	First Year Net Electric CO2e	First Year Net Gas CO2e	Lifecycle Net kWh	Lifecycle Net Thermal (MMBtu)	Lifecycle Net Electric CO2e	Lifecycle Net Gas CO2e	2030 PA Spending Budget Request	First Year Net kWh	First Year Net kW	First Year Net Thermal (MMBtu)	First Year Net Electric CO2e	First Year Net Gas CO2e	Lifecycle Net kWh	Lifecycle Net Thermal (MMBtu)	Lifecycle Net Electric CO2e	Lifecycle Net Gas CO2e	2031 PA Spending Budget Request	First Year Net kWh	First Year Net kW	First Year Net Thermal (MMBtu)	First Year Net Electric CO2e	First Year Net Gas CO2e	Lifecycle Net kWh	Lifecycle Net Thermal (MMBtu)	Lifecycle Net Electric CO2e	Lifecycle Net Gas CO2e			
		Residential	Resource Acquisition																																													
		Commercial	Resource Acquisition																																													
		Industrial	Resource Acquisition																																													
		Agricultural	Resource Acquisition																																													
		Emerging Tech	Resource Acquisition																																													
		Public	Resource Acquisition																																													
		WESF	Resource Acquisition																																													
		Finance	Resource Acquisition																																													
		QBE Loan Pool	Resource Acquisition																																													
		Residential	Market Support																																													
		Commercial	Market Support																																													
		Industrial	Market Support																																													
		Agricultural	Market Support																																													
		Emerging Tech	Market Support																																													
		Public	Market Support																																													
		WESF	Market Support																																													
		Finance	Market Support																																													
		QBE Loan Pool	Market Support																																													
		Residential	Equity																																													
		Commercial	Equity																																													
		Industrial	Equity																																													
		Agricultural	Equity																																													
		Emerging Tech	Equity																																													
		Public	Equity																																													
		WESF	Equity																																													
		Finance	Equity																																													
		QBE Loan Pool	Equity																																													
		Codes & Standards	Codes & Standards			\$ -	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		PA PROGRAM TOTAL				\$ -	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		EM&V (PA & ED Portions) Total <sup>1</sup>				\$ -	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		EM&V - PA				\$ -	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		EM&V - ED				\$ -	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		EM&V TOTAL				\$ -	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		PA Spending Budget Request (PA Program and EM&V) Total				\$ .00	-	-	-	-	-	-	-	-	-	\$ .00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		CIC AB 681 Program Budget—2024 PA only																																														
		Applicable Annual % of Difference between Funding Initiation & 2020 EE ABAs																																														
		2020 and Beyond Uncommitted and Unspent Carryover Balance																																														
		CIC AB 681 Total																																														
		PA Spending Budget Request (PA Program and EM&V + CIC AB 681)				\$ -	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Financing Pilot Programs																																														
		Financing Pilot Programs Total				\$ -	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		ME&V & CSA																																														

Notes:  
1. CCRREN Budget is approved from 2024-2027 funding cycle per D.24-09-031, CP 6.

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031  
Table 4.3  
Page 1 of 1

Pa Name: Central California Rural REN  
Budget Year: 2024-2027  
Table 4.3– 2024 and Beyond Program Changes

be closed with the disposition of 2024-2031 EE

PA Justification	Third Party Implementer or Core	Statewide or Local	Programs to be closed with the disposition of 2024-2031 EE Application	% change	2021 (Q3) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2024 Filed TSB	2025 Filed TSB	2021 Budget	2022 Budget	2023 Budget	Year Program Started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2024 and Beyond Application planning and new 3P contracting	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2024 and Beyond Application planning and timing for new 3P contracts' ramp up

be closed upon completion of commitments

PA Justification	Third Party Implementer or Core	Statewide or Local	Programs to be Closed with the Disposition of 2024-2031 Application	% change	2020 Claimed TRC	2021 (Q3) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2024 Filed TSB	2025 Filed TSB	2021 Budget	2022 Budget	2023 Budget	Year Program Started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2024 and Beyond Application planning and new 3P contracts ramp up.

reduced budgets (>40% budget decrease), to

PA Justification	Third party implementer or Core	Statewide	Programs with reduced budgets (>40% budget decrease)	% change	2020 Claimed TRC	2021 (Q3) Claimed TRC	2022 Filed TRC	2023 Filed TRC	2022 Filed TSB	2023 Filed TSB	2021 Budget	2022 Budget	2023 Budget	Year program started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2024 and Beyond Application planning and new 3P contracts ramp up.	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2024- and beyond planning and timing for new 3P contracts ramp up , or mark "NEW 3P" program if program is result of 3P solicitation process per D1801004.

enhanced budgets (>40%

PA Justification	Third party implementer or Core	Statewide	Programs with enhanced budgets (>40% budget increase)	% change	2023 Filed budget	2023 Filed TSB	2023 Filed TRC	2024 Filed TSB	2024 Filed TSB	2024 Budget	2024 Budget	Year program started	For existing third party implemented programs, MM/YY Program was due to sunset prior to PY 2024-2031 Application planning and new 3P contracting	For existing third party implemented programs, MM/YY Program is extended to as a result of PY 2024-2031 Application planning and timing for new 3P contracts ramp up , or mark "NEW 3P" program if program is result of 3P solicitation process per D1801004.

are new in 2024 and

PA Justification	Third party implementer or Core	Statewide	Programs that are new in 2024 or beyond	Start year Filed TSB	Start year Filed TRC	Start Year Budget	MM/YY program to start	MM/YY Program is due to sunset, and flag as "NEW 3P" program if program is result of 3P solicitation process per D1801004

Third-Party Contracts that

PA Justification	Third party implementer or Core	Statewide	Programs with Third-Party Contracts that Sunset in 2024-2027	Third-Party Contracts that sunset during PY 2024-2027	Contract Expiration Date	Identify contract terms and/or limits on extensions	Is third-party contract anticipated to be renewed, recompeted, or unknown?	Proposed target date to reopen solicitation for competition or new market opportunity

Pa Name:	Central California Rural REN
Budget Year:	2024-2027

Table 5 - Committed Energy Efficiency Program Funding - Funds Not Yet Spent as of 9/31/2021

Committed funds but not yet spent	Electric Procurement Funds	Natural Gas Public Purpose Funds	Total
Category **			
2017 to date EM&V Funds			\$0
2017 to date Program Funds - Utility			\$0
2017 to date Program Funds - REN			\$0
2017 to date Program Funds - CCA			\$0
2018 to date EM&V Funds			\$0
2018 to date Program Funds - Utility			\$0
2018 to date Program Funds - REN			\$0
2018 to date Program Funds - CCA			\$0
2019 to date EM&V Funds			\$0
2019 to date Program Funds - Utility			\$0
2019 to date Program Funds - REN			\$0
2019 to date Program Funds - CCA			\$0
2020 to date EM&V Funds			\$0
2020 to date Program Funds - Utility			\$0
2020 to date Program Funds - REN			\$0
2020 to date Program Funds - CCA			\$0
2021 to date EM&V Funds			\$0
2021 to date Program Funds - Utility			\$0
2021 to date Program Funds - REN			\$0
2021 to date Program Funds - CCA			\$0

commitment.

For IOU PA: Input IOU EM&V and IOU commitments. Incorporate REN/CCA information into the table. IOU Tab 5 will provide full picture of all committed funds for the IOU/CCA/REN combined portfolios.

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

Table 6  
Page 1 of 1

Pa Name: Central California Rural REN  
Budget Year: 2024-2027  
Table 6 - Statewide Programs (Identical For All IOUs)

															(Col D)*IOU Electric Proportional Share From INPUT TABLE + (J) & (K) IOU Gas Proportional Share From INPUT TABLE																																															
															Col E		Col F		Col G																																											
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\*Modify rows as needed to reflect consolidation or division of a program category per solicitation approach or contracts. Ultimately there should be one line per executed BP contract.  
\*\*The contract budget or signed contract amount for a given year accounts for the anticipated launch date of the program. Program contract budgets reflect third party implementation contract values and expenditures. Estimated values for year end 2021.  
\* Administrative budgets for statewide programs are IOU specific and are filed under separate program IDs. They include all non-contract program expenditures which cover coordination, support and management. Estimate for year end 2021. This does not include any contract implementation cost.  
\*\* Launch date assumes that the signed contracts filed via AI are approved by ED in 90 days, where applicable.  
BP Decision (D-18-05-041); CP 23. The 25 percent requirement for statewide funding articulated in D-16-08-013 shall be calculated as a proportion of the utility program administrator's total portfolio budget, including evaluation, measurement, and verification funding, but excluding funding allocated to other program administrators for other (non-statewide) programs. The percentage requirement for

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

ADVICE LETTER 3268-E-A/2701-G-A  
(San Diego Gas & Electric Company - U902 M)  
ADVICE LETTER 3346-G-A  
(Southern California Gas Company - U904 G)  
ADVICE LETTER 3861-E-A  
(Southern California Edison Company - U338 E)  
ADVICE LETTER 5373-E-A/4009-G-A  
(Pacific Gas & Electric Company - U39 M)

Table 7.1  
Page 1 of 1

Pa Name: Central California Rural REN  
Budget Year: 2024-2027

**Table 7.1 - PA 2024-2027 Budget Savings By Segment**

[illegible]

Table 7.2  
Page 1 of 1

Central California Rural REN
2024-2027

		Sector	Requested Budget	TSB	TRC	PAC	KWh	kW	Therms (MM)	First Year Net Elec CO2e	First Year Net Gas CO2e	Lifecycle Net KWH	Lifecycle Net Therms (MM)	Lifecycle Net Electric CO2e	Lifecycle Net Gas CO2e	Lifecycle Net CO2e from low-GWP Measures
2024		Residential	\$ 1,141,875	0	0	0	-	-	-	-	-	-	-	-	-	-
		Commercial	\$ 63,940	0	0	0	-	-	-	-	-	-	-	-	-	-
		Industrial	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Agricultural	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Emerging Tech	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Public	\$ 266,960	0	0	0	-	-	-	-	-	-	-	-	-	-
		WE&T	\$ 755,625	0	0	0	-	-	-	-	-	-	-	-	-	-
		Finance	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		OBF Loan Pool	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Codes & Stds	\$ 584,400	0	0	0	-	-	-	-	-	-	-	-	-	-
	EM&V	\$ 117,200														
	TOTAL Portfolio	\$ 2,930,000	-	-	-.00	-.00	-	-	-	-	-	-	-	-	-	-
2025		Residential	\$ 3,745,125	0	0	0	-	-	-	-	-	-	-	-	-	-
		Commercial	\$ 2,457,927	2,534,596	1.01	1.03	(1,412,385)	13	225,430	(471)	1,197	(14,404,343)	2,493,574.57	(4,232)	13,241	-
		Industrial	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Agricultural	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Emerging Tech	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Public	\$ 298,125	0	0	0	-	-	-	-	-	-	-	-	-	-
		WE&T	\$ 3,191,510	0	0	0	-	-	-	-	-	-	-	-	-	-
		Finance	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		OBF Loan Pool	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Codes & Stds	\$ 792,000	0	0	0	-	-	-	-	-	-	-	-	-	-
	EM&V	\$ 436,864	0	0	0	-	-	-	-	-	-	-	-	-	-	
	TOTAL Portfolio	\$ 10,921,551	2,534,596	0.30	0.30	(1,412,385)	13	225,430	(471)	1,197	(14,404,343)	2,493,574.57	(4,232)	13,241	-	
2026		Residential	\$ 3,736,125	0	0	0	-	-	-	-	-	-	-	-	-	-
		Commercial	\$ 2,448,878	2,544,594	1.02	1.05	(1,180,312)	13	188,895	(398)	1,003	(14,282,997)	2,358,087.77	(3,998)	12,521	-
		Industrial	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Agricultural	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Emerging Tech	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Public	\$ 299,700	0	0	0	-	-	-	-	-	-	-	-	-	-
		WE&T	\$ 3,211,833	0	0	0	-	-	-	-	-	-	-	-	-	-
		Finance	\$ 303,750	0	0	0	-	-	-	-	-	-	-	-	-	-
		OBF Loan Pool	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Codes & Stds	\$ 787,730	0	0	0	-	-	-	-	-	-	-	-	-	-
	EM&V	\$ 449,501	0	0	0	-	-	-	-	-	-	-	-	-	-	
	TOTAL Portfolio	\$ 11,237,517	2,544,594	0.24	0.25	(1,180,312)	13	188,895	(398)	1,003	(14,282,997)	2,358,087.77	(3,998)	12,521	-	
2027		Residential	\$ 3,740,625	0	0	0	-	-	-	-	-	-	-	-	-	-
		Commercial	\$ 2,438,223	2,574,236	1.03	1.06	(1,124,907)	14	179,444	(358)	953	(13,575,159)	2,220,527.81	(3,692)	11,791	-
		Industrial	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Agricultural	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Emerging Tech	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Public	\$ 304,425	0	0	0	-	-	-	-	-	-	-	-	-	-
		WE&T	\$ 3,228,177	0	0	0	-	-	-	-	-	-	-	-	-	-
		Finance	\$ 303,750	0	0	0	-	-	-	-	-	-	-	-	-	-
		OBF Loan Pool	\$ -	0	0	0	-	-	-	-	-	-	-	-	-	-
		Codes & Stds	\$ 784,733	0	0	0	-	-	-	-	-	-	-	-	-	-
	EM&V	\$ 449,999	0	0	0	-	-	-	-	-	-	-	-	-	-	
	TOTAL Portfolio	\$ 11,249,932	2,574,236	0.25	0.25	(1,124,907)	14	179,444	(358)	953	(13,575,159)	2,220,527.81	(3,692)	11,791	-	
4-Yr Total		\$ 36,339,000	7,653,426	0.24	0.25	(3,717,604)	40	593,770	(1,228)	3,153	(42,262,499)	7,072,190.14	(11,923)	37,553	-	
2024-2027 Total		Residential	12,363,750	-	-	-	-	-	-	-	-	-	-	-	-	-
		Commercial	7,408,968	7,653,426	1.01	1.04	(3,717,604)	40	593,770	(1,228)	3,153	(42,262,499)	7,072,190	(11,923)	37,553	-
		Industrial	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Agricultural	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Emerging Tech	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Public	1,169,210	-	-	-	-	-	-	-	-	-	-	-	-	-
		WE&T	10,387,145	-	-	-	-	-	-	-	-	-	-	-	-	-
		Finance	607,500	-	-	-	-	-	-	-	-	-	-	-	-	-
		OBF Loan Pool	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Codes & Stds	2,948,863	-	-	-	-	-	-	-	-	-	-	-	-	-
	EM&V	1,453,564.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
	TOTAL Portfolio	36,339,000	7,653,426	0.24	0.25	(3,717,604)	40	593,770	(1,228)	3,153	(42,262,499)	7,072,190	(11,923)	37,553	-	
	QC ok		QC ok	BAD	BAD	QC ok	QC ok	QC ok	QC ok	QC ok	QC ok	QC ok	QC ok	QC ok	QC ok	QC ok

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

Table 7.3  
Page 1 of 1

[illegible][illegible]

Table 8  
Page 1 of 1

2024 Energy Efficiency Cap And Target Expenditure Projections				2025 Energy Efficiency Cap And Target Expenditure Projections				2026 Energy Efficiency Cap And Target Expenditure Projections				2027 Energy Efficiency Cap And Target Expenditure Projections							
		Expenditures			Cap & Target Performance			Expenditures			Cap & Target Performance			Expenditures			Cap & Target Performance		
		Non-Third Party Qualifying Costs (including PA costs and old-definition 3P/GP contracts that don't meet the new definition)	Third Party Qualifying Costs <sup>2</sup> (Local SW, CEC & AB 841)	Total Portfolio	Percent of Budget <sup>a</sup>	IOU Cap %	Target %	Non-Third Party Qualifying Costs (including PA costs and old-definition 3P/GP contracts that don't meet the new definition)	Third Party Qualifying Costs <sup>2</sup> (including SW)	Total Portfolio	Percent of Budget <sup>a</sup>	IOU Cap %	Target %	Non-Third Party Qualifying Costs (including PA costs and old-definition 3P/GP contracts that don't meet the new definition)	Third Party Qualifying Costs <sup>2</sup> (including SW)	Total Portfolio	Percent of Budget <sup>a</sup>	IOU Cap %	Target %
Line	Budget Category																		
1	Administrative Costs																		
2	PA <sup>1</sup>	\$ 2,664		\$ 2,664	0.1%	10.0%		\$ 102,416		\$ 102,416	0.9%	10.0%		\$ 102,037		\$ 102,037	0.9%	10.0%	
3	Non-PA Third Party & Partnership <sup>2</sup>	\$ -	\$ -	\$ -	0.0%		10.0%	\$ -	\$ -	\$ -	0.0%		10.0%	\$ -	\$ -	\$ -	0.0%		10.0%
4	PA & Non-PA Target Exempt Programs <sup>3</sup>	\$ 290,336	\$ -	\$ 290,336				\$ 989,744	\$ -	\$ 989,744				\$ 1,021,715	\$ -	\$ 1,021,715			
5	Marketing and Outreach Costs <sup>4</sup>																		
6	Marketing & Outreach	\$ 175,798	\$ -	\$ 175,798	6.0%		6.0%	\$ 655,245	\$ -	\$ 655,245	6.0%		6.0%	\$ 674,251	\$ -	\$ 674,251	6.0%		6.0%
7	Statewide Marketing & Outreach <sup>5</sup>	\$ -		\$ -				\$ -		\$ -				\$ -		\$ -			
8	Direct Implementation Costs																		
9	Direct Implementation (Incentives and Rebates)	\$ -	\$ -	\$ -				\$ 717,684	\$ -	\$ 717,684				\$ 717,683	\$ -	\$ 717,683			
10	Direct Implementation (Non Incentives and	\$ 53,285	\$ -	\$ 53,285	1.8%		20.0%	\$ 1,330,631	\$ -	\$ 1,330,631	12.2%		20.0%	\$ 1,323,048	\$ -	\$ 1,323,048	11.8%		20.0%
11	Direct Implementation Target Exempt Programs (Non Incentives and Non Rebates) <sup>3</sup>																		
		\$ 2,290,717	\$ -	\$ 2,290,717				\$ 6,688,967	\$ -	\$ 6,688,967				\$ 6,949,282	\$ -	\$ 6,949,282			
12	EM&V Costs (PA and Energy Division) <sup>6,7</sup>	\$ 117,200		\$ 117,200	4.0%		4.0%	\$ 436,864		\$ 436,864	4.0%		4.0%	\$ 449,501		\$ 449,501	4.0%		4.0%
12a	EM&V - PA	\$ 32,230		\$ 32,230				\$ 120,138		\$ 120,138				\$ 123,613		\$ 123,613			
12b	EM&V - ED	\$ 84,970		\$ 84,970				\$ 316,726		\$ 316,726				\$ 325,888		\$ 325,888			
13	Total Portfolio Budget (includes PA Program and EM&V Budget + SW ME&O) <sup>8</sup>	\$ 2,930,000	\$ -	\$ 2,930,000				\$ 10,921,551	\$ -	\$ 10,921,551				\$ 11,237,517	\$ -	\$ 11,237,517			
14	PA Spending Budget Request (PA Program and EM&V) <sup>9</sup>			\$ 2,930,000						\$ 10,921,551						\$ 11,237,517			
15	Total Third-Party Implementer Contracts + CEC AB 841 (as defined per D.16-08-019, OP 10) <sup>10, 11</sup>		\$ -		0.0%		60.0%		\$ -		0.0%		60.0%		\$ -			0.0%	60.0%

Notes:

1. 10% cap requirement based on D. 09-09-047 is set for IOU only. Not applicable RENS.
2. New third party program definition per D.16-08-019, OP 10. For Row 3 of this table, the "Third Party & Partnership" administrative costs under the "Non-Third Party Qualifying Costs" column are costs for programs that met the old Third Party definition prior to the transition to the new third party definition.
3. Target Exempt Programs are Non-Resource Programs which include: Emerging Technologies, Workforce Education & Training, Strategic Energy Resources (SER) program, 3P Placeholder for Public LIGPs, and Codes & Standards programs (excluding Building Codes Advocacy, Appliance Standards Advocacy and National Standards Advocacy).
4. Statewide Marketing & Outreach (SW ME&O) is excluded from the Marketing and Outreach cost target calculation per D.13-12-038, at p. 82.
5. Statewide ME&O budgets. The amount in Line 7 represents the allocated to EE.
6. For IOUs, EM&V costs only includes IOU's Total EM&V budget (PA + ED) and does not include REN or CCAs EM&V budget. For RENS & CCAs, include EM&V-PA Budget and EM&V-ED = 50.
7. The EM&V percentage is based on PA's total portfolio budget, which excludes SWME&O, RENS, CCAs and CEC AB 841. This is the Total in line 13, minus SWME&O in line 7.
8. As directed in the Energy Efficiency Policy Manual Version 5 July 2013, page 92, this total includes SW ME&O and excludes REN and CCA budgets and is the denominator used to calculate the IOU PA Admin, Marketing, and Direct Implementation Non-Incentives percentages.
9. PA Proposed Budget excludes SWME&O budget.
10. IOU PA's percentage for Third-Party Implementer Contracts uses \$X as its denominator, which is IOU PA Subtotal including EM&V, but excluding SWME&O, REN, and CCA. This is the Total in line 13 15, minus SWME&O in line 7.
11. IOU's Third-Party Implementer Contracts (as defined per D.16-08-019, OP 10) includes third-party contract and incentive budgets and statewide qualifying contract and incentive budgets.



Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

Table 9

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Pa Name:	Central California Rural REN
Budget Year:	2024-2027
PORTFOLIO SUMMARY	

[illegible]

Pa Name:	Central California Rural REN
Budget Year:	2024-2027
PORTFOLIO STAFFING	

Functional Group	2024 EE Portfolio FTE (2)	2025 EE Portfolio FTE (2)	2026 EE Portfolio FTE (2)	2027 EE Portfolio FTE (2)
Policy, Strategy, and Regulatory Reporting Compliance	0.0	0.3	0.3	0.3
Program Management	0.1	0.4	0.4	0.4
Engineering Services	-	-	-	-
Customer Application/Rebate/Incentive Processing	0.0	0.1	0.0	0.0
Customer Project Inspections	0.0	0.0	0.0	0.0
Portfolio Analytics (1)	0.3	1.5	1.5	1.4
EM&V	-	-	-	-
ME&O (Local)	0.4	1.4	1.3	1.3
Account Management / Sales	0.2	0.9	0.9	0.8
IT	0.0	0.3	0.3	0.3
Call Center	-	-	-	-
Total	1	4.9	4.7	4.5

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

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Pa Name:	Central California Rural REN
Budget Year:	2024-2027

RESIDENTIAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2024 EE Portfolio Budget	2025 EE Portfolio Budget	2026 EE Portfolio Budget	2027 EE Portfolio Budget
Residential	Labor Total	Policy, Strategy, and Regulatory Reporting Compliance	\$ 10,517	\$ 32,510	\$ 32,674	\$ 32,752
		Program Management	\$ 10,517	\$ 32,510	\$ 32,674	\$ 32,752
		Engineering services	\$ -	\$ -	\$ -	\$ -
		Customer Application/Rebate/Incentive Processing	\$ -	\$ -	\$ -	\$ -
		Customer Project Inspections	\$ -	\$ -	\$ -	\$ -
		Portfolio Analytics	\$ 10,517	\$ 55,368	\$ 57,203	\$ 57,313
		ME&O (Local)	\$ -	\$ 26,124	\$ 28,033	\$ 28,070
		Account Management / Sales	\$ -	\$ 16,327	\$ 17,520	\$ 17,544
		IT	\$ 10,517	\$ 32,510	\$ 32,674	\$ 32,752
		Call Center	\$ -	\$ -	\$ -	\$ -
	Labor Total		\$ 42,068	\$ 195,348	\$ 200,777	\$ 201,182
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$ -	\$ -	\$ -	\$ -
		Local/Government Partnerships Contracts	\$ -	\$ -	\$ -	\$ -
		Other Contracts	\$ -	\$ -	\$ -	\$ -
		Program Implementation	\$ -	\$ 1,830,950	\$ 1,826,550	\$ 1,828,750
		Policy, Strategy, and Regulatory Reporting Compliance	\$ -	\$ 14,564	\$ 14,142	\$ 14,097
		Program Management	\$ 558,250	\$ 674,903	\$ 673,039	\$ 673,811
		Engineering services	\$ 3,473	\$ 166,450	\$ 166,050	\$ 166,250
		Customer Application/Rebate/Incentive Processing	\$ 205,170	\$ 299,610	\$ 298,890	\$ 299,250
		Customer Project Inspections	\$ 50,750	\$ 33,290	\$ 33,210	\$ 33,250
		Portfolio Analytics	\$ 91,350	\$ 73,631	\$ 71,486	\$ 71,531
		ME&O (Local)	\$ 10,150	\$ 306,776	\$ 304,067	\$ 304,430
		Account Management / Sales	\$ 28,814	\$ 145,962	\$ 144,378	\$ 144,550
		IT	\$ 101,500	\$ 3,641	\$ 3,535	\$ 3,524
		Call Center	\$ 49,481	\$ -	\$ -	\$ -
		Facilities	\$ 868	\$ -	\$ -	\$ -
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	\$ -	\$ -	\$ -	\$ -
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	\$ -	\$ -	\$ -	\$ -
	Non-Labor Total		\$ 1,099,807	\$ 3,549,777	\$ 3,535,348	\$ 3,539,443
Residential Total			\$ 1,141,875	\$ 3,745,125	\$ 3,736,125	\$ 3,740,625
	Other (collected through GRC)	Labor Overheads	\$ -	\$ -	\$ -	\$ -

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

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<b>Pa Name:</b>	Central California Rural REN
<b>Budget Year:</b>	2024-2027

**COMMERCIAL BUDGET DETAIL**

Sector	Cost Element	Functional Group	2024 EE Portfolio Budget	2025 EE Portfolio Budget	2026 EE Portfolio Budget	2027 EE Portfolio Budget
Commercial	Labor Total	Policy, Strategy, and Regulatory Reporting Compliance	\$ 1,380	\$ 50,008	\$ 50,195	\$ 50,036
		Program Management	\$ 1,380	\$ 50,008	\$ 50,195	\$ 50,036
		Engineering services	\$ -	\$ -	\$ -	\$ -
		Customer Application/Rebate/Incentive Processing	\$ -	\$ -	\$ -	\$ -
		Customer Project Inspections	\$ -	\$ -	\$ -	\$ -
		Portfolio Analytics	\$ 1,380	\$ 64,068	\$ 65,268	\$ 65,042
		ME&O (Local)	\$ -	\$ 16,068	\$ 17,226	\$ 17,149
		Account Management / Sales	\$ -	\$ 10,043	\$ 10,766	\$ 10,718
		IT	\$ 1,380	\$ 50,008	\$ 50,195	\$ 50,036
		Call Center	\$ -	\$ -	\$ -	\$ -
	Labor Total		\$ 5,521	\$ 240,202	\$ 243,845	\$ 243,017
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$ -	\$ -	\$ -	\$ -
		Local/Government Partnerships Contracts	\$ -	\$ -	\$ -	\$ -
		Other Contracts	\$ -	\$ -	\$ -	\$ -
		Program Implementation	\$ 29,307	\$ 731,847	\$ 727,677	\$ 722,809
		Policy, Strategy, and Regulatory Reporting Compliance	\$ 456	\$ 22,403	\$ 21,725	\$ 21,536
		Program Management	\$ 10,942	\$ 280,128	\$ 278,188	\$ 276,300
		Engineering services	\$ 2,664	\$ 66,532	\$ 66,152	\$ 65,710
		Customer Application/Rebate/Incentive Processing	\$ 4,796	\$ 119,757	\$ 119,074	\$ 118,278
		Customer Project Inspections	\$ 533	\$ 13,306	\$ 13,230	\$ 13,142
		Portfolio Analytics	\$ 1,683	\$ 53,693	\$ 52,075	\$ 51,779
		ME&O (Local)	\$ 5,328	\$ 138,505	\$ 136,610	\$ 135,787
		Account Management / Sales	\$ 2,597	\$ 68,269	\$ 67,189	\$ 66,797
		IT	\$ 114	\$ 5,601	\$ 5,431	\$ 5,384
		Call Center	\$ -	\$ -	\$ -	\$ -
		Facilities	\$ -	\$ -	\$ -	\$ -
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	\$ -	\$ 717,684	\$ 717,683	\$ 717,684
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	\$ -	\$ -	\$ -	\$ -
	Non-Labor Total		\$ 58,419	\$ 2,217,725	\$ 2,205,033	\$ 2,195,206
Commercial Total			\$ 63,940	\$ 2,457,927	\$ 2,448,878	\$ 2,438,223
	Other (collected through GRC)	Labor Overheads	\$ -	\$ -	\$ -	\$ -

Pa Name:	Central California Rural REN
Budget Year:	2024-2027

INDUSTRIAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2024 EE Portfolio Budget	2025 EE Portfolio Budget	2026 EE Portfolio Budget	2027 EE Portfolio Budget
Industrial	Labor Total	Policy, Strategy, and Regulatory Reporting Compliance				
		Program Management				
		Engineering services				
		Customer Application/Rebate/Incentive Processing				
		Customer Project Inspections				
		Portfolio Analytics				
		ME&O (Local)				
		Account Management / Sales				
		IT				
		Call Center				
	Labor Total		\$ -	\$ -	\$ -	\$ -
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)				
		Local/Government Partnerships Contracts				
		Other Contracts				
		Program Implementation				
		Policy, Strategy, and Regulatory Reporting Compliance				
		Program Management				
		Engineering services				
		Customer Application/Rebate/Incentive Processing				
		Customer Project Inspections				
		Portfolio Analytics				
		ME&O (Local)				
		Account Management / Sales				
		IT				
		Call Center				
		Facilities				
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs				
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)				
	Non-Labor Total		\$ -	\$ -	\$ -	\$ -
Industrial Total			\$ -	\$ -	\$ -	\$ -
	Other (collected through GRC)	Labor Overheads	\$ -	\$ -	\$ -	\$ -

Pa Name:	Central California Rural REN
Budget Year:	2024-2027

AGRICULTURAL BUDGET DETAIL

Sector	Cost Element	Functional Group	2024 EE Portfolio Budget	2025 EE Portfolio Budget	2026 EE Portfolio Budget	2027 EE Portfolio Budget
Agricultural	Labor Total	Policy, Strategy, and Regulatory Reporting Compliance				
		Program Management				
		Engineering services				
		Customer Application/Rebate/Incentive Processing				
		Customer Project Inspections				
		Portfolio Analytics				
		ME&O (Local)				
		Account Management / Sales				
		IT				
		Call Center				
	Labor Total		\$ -	\$ -	\$ -	\$ -
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)				
		Local/Government Partnerships Contracts				
		Other Contracts				
		Program Implementation				
		Policy, Strategy, and Regulatory Reporting Compliance				
		Program Management				
		Engineering services				
		Customer Application/Rebate/Incentive Processing				
		Customer Project Inspections				
		Portfolio Analytics				
		ME&O (Local)				
		Account Management / Sales				
		IT				
		Call Center				
		Facilities				
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs				
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)				
	Non-Labor Total		\$ -	\$ -	\$ -	\$ -
Agricultural Total			\$ -	\$ -	\$ -	\$ -
	Other (collected through GRC)	Labor Overheads	\$ -	\$ -	\$ -	\$ -

<b>Pa Name:</b>	Central California Rural REN
<b>Budget Year:</b>	2024-2027
<b>PUBLIC SECTOR BUDGET DETAIL</b>	

Sector	Cost Element	Functional Group	2024 EE Portfolio Budget	2025 EE Portfolio Budget	2026 EE Portfolio Budget	2027 EE Portfolio Budget
Public Sector	Labor	Policy, Strategy, and Regulatory Reporting Compliance	\$ 3,158	\$ 3,823	\$ 3,930	\$ 4,054
		Program Management	\$ 8,752	\$ 13,706	\$ 14,406	\$ 15,158
		Engineering services	\$ -	\$ -	\$ -	\$ -
		Customer Application/Rebate/Incentive Processing	\$ 2,098	\$ 3,706	\$ 3,928	\$ 4,164
		Customer Project Inspections	\$ 699	\$ 1,235	\$ 1,309	\$ 1,388
		Portfolio Analytics	\$ 3,857	\$ 6,878	\$ 7,208	\$ 7,440
		ME&O (Local)	\$ -	\$ 2,080	\$ 2,249	\$ 2,284
		Account Management / Sales	\$ 2,098	\$ 5,006	\$ 5,334	\$ 5,592
		IT	\$ 3,158	\$ 3,823	\$ 3,930	\$ 4,054
		Call Center	\$ -	\$ -	\$ -	\$ -
	Labor Total		\$ 23,820	\$ 40,257	\$ 42,295	\$ 44,134
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$ -	\$ -	\$ -	\$ -
		Local/Government Partnerships Contracts	\$ -	\$ -	\$ -	\$ -
		Other Contracts	\$ -	\$ -	\$ -	\$ -
		Program Implementation	\$ 122,822	\$ 132,161	\$ 132,116	\$ 133,561
		Policy, Strategy, and Regulatory Reporting Compliance	\$ 812	\$ 1,159	\$ 1,134	\$ 1,147
		Program Management	\$ 45,170	\$ 48,783	\$ 48,751	\$ 49,285
		Engineering services	\$ 11,166	\$ 12,015	\$ 12,011	\$ 12,142
		Customer Application/Rebate/Incentive Processing	\$ 20,098	\$ 21,626	\$ 21,619	\$ 21,856
		Customer Project Inspections	\$ 2,233	\$ 2,403	\$ 2,402	\$ 2,428
		Portfolio Analytics	\$ 6,736	\$ 5,861	\$ 5,734	\$ 5,821
		ME&O (Local)	\$ 22,751	\$ 22,691	\$ 22,558	\$ 22,832
		Account Management / Sales	\$ 11,149	\$ 10,878	\$ 10,796	\$ 10,931
		IT	\$ 203	\$ 290	\$ 284	\$ 287
		Call Center	\$ -	\$ -	\$ -	\$ -
		Facilities	\$ -	\$ -	\$ -	\$ -
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	\$ -	\$ -	\$ -	\$ -
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	\$ -	\$ -	\$ -	\$ -
	Non-Labor Total		\$ 243,140	\$ 257,868	\$ 257,405	\$ 260,291
Public Sector Total			\$ 266,960	\$ 298,125	\$ 299,700	\$ 304,425
	Other (collected through GRC)	Labor Overheads	\$ -	\$ -	\$ -	\$ -

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<b>Pa Name:</b>	Central California Rural REN
<b>Budget Year:</b>	2024-2027
<b>CROSS -CUTTING BUDGET DETAIL</b>	

			2024 EE Portfolio Budget	2025 EE Portfolio Budget	2026 EE Portfolio Budget	2027 EE Portfolio Budget	
Sector	Cost Element	Functional Group					
Cross-Cutting	Labor	Policy, Strategy, and Regulatory Reporting Compliance	\$ 47,062	\$ 131,334	\$ 137,824	\$ 137,862	
		Program Management	\$ 52,656	\$ 156,347	\$ 155,352	\$ 151,359	
		Engineering services	\$ -	\$ -	\$ -	\$ -	
		Customer Application/Rebate/Incentive Processing	\$ 2,098	\$ 9,380	\$ 6,573	\$ 5,061	
		Customer Project Inspections	\$ 699	\$ 3,127	\$ 2,191	\$ 1,687	
		Portfolio Analytics	\$ 47,762	\$ 155,712	\$ 164,845	\$ 164,461	
		ME&O (Local)	\$ -	\$ 24,287	\$ 28,378	\$ 28,471	
		Account Management / Sales	\$ 2,098	\$ 24,559	\$ 24,309	\$ 22,856	
		IT	\$ 47,062	\$ 131,334	\$ 137,824	\$ 137,862	
		Call Center	\$ -	\$ -	\$ -	\$ -	
		Labor Total		\$ 199,438	\$ 636,078	\$ 657,296	\$ 649,620
	Non-Labor	Third-Party Implementer (as defined per D.16-08-019, OP 10)	\$ -	\$ -	\$ -	\$ -	
		Local/Government Partnerships Contracts	\$ -	\$ -	\$ -	\$ -	
		Other Contracts	\$ -	\$ -	\$ -	\$ -	
		Program Implementation	\$ 563,439	\$ 1,667,839	\$ 1,824,934	\$ 1,836,312	
		Policy, Strategy, and Regulatory Reporting Compliance	\$ 15,309	\$ 57,437	\$ 58,703	\$ 58,612	
		Program Management	\$ 214,455	\$ 642,385	\$ 700,302	\$ 704,383	
		Engineering services	\$ 51,222	\$ 151,622	\$ 165,903	\$ 166,937	
		Customer Application/Rebate/Incentive Processing	\$ 92,199	\$ 272,919	\$ 298,626	\$ 300,487	
		Customer Project Inspections	\$ 10,244	\$ 30,324	\$ 33,181	\$ 33,387	
		Portfolio Analytics	\$ 36,826	\$ 95,890	\$ 100,108	\$ 100,249	
		ME&O (Local)	\$ 102,863	\$ 280,833	\$ 304,743	\$ 306,416	
		Account Management / Sales	\$ 50,203	\$ 133,824	\$ 144,841	\$ 145,602	
		IT	\$ 3,827	\$ 14,359	\$ 14,676	\$ 14,653	
		Call Center	\$ -	\$ -	\$ -	\$ -	
		Facilities	\$ -	\$ -	\$ -	\$ -	
		Incentives--(PA-implemented and Other Contracts Program Implementation) Programs	\$ -	\$ -	\$ -	\$ -	
		Incentives--Third Party Program (as defined per D.16-08-019, OP 10)	\$ -	\$ -	\$ -	\$ -	
		Non-Labor Total		\$ 1,140,587	\$ 3,347,432	\$ 3,646,017	\$ 3,667,040
Cross-Cutting Total			\$ 1,340,025	\$ 3,983,510	\$ 4,303,313	\$ 4,316,660	
		Other (collected through GRC)	Labor Overheads	\$ -	\$ -	\$ -	\$ -



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Central California Rural REN EE Portfolio Application  
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Table 17  
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Portfolio Name: Central California Rural REN  
Budget Year: 2024-2027  
MP Metrics: Portfolio Level

Table 9: Metrics Compliance Filing																															
Index	PA	Asset Age	Asset Order	Method Code	Units of Measurement	Metric Type	Metric Indicator	Business Plan AA Description	Metric	Set or	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievement	2018 Achievement	2019 Achievement	Short Term Annual Targets (2020-2023)	Mid Term Annual Targets (2024-2026)	Long Term Annual Targets (2027-2031)	2024 Achievement	2025 Achievement	2026 Achievement	Target 2027-2031 Calculation	Target 2024	Target 2025	Target 2026	Target 2027	Methodology	Key Definitions	
106	Central California Rural REN	A03	RMF1	SL-CA	First year annual Therms gross	S1: Energy Savings	Metric	First year annual Therms gross (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	First year annual Therms gross - Central Area	Residential Sector - Sub-benefit																			First year annual Therms gross (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)		
107	Central California Rural REN	A03	RMF1	SL-CA	First year annual Therms net	S1: Energy Savings	Metric	First year annual Therms net (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	First year annual Therms net - Central Area	Residential Sector - Sub-benefit																				First year annual Therms net (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	
108	Central California Rural REN	A03	RMF1	SL-CA	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	Lifecycle ex-ante kWh gross (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	Lifecycle ex-ante kWh gross - Central Area	Residential Sector - Sub-benefit																				Lifecycle ex-ante kWh gross (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	
109	Central California Rural REN	A03	RMF1	SL-CA	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	Lifecycle ex-ante kWh net (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	Lifecycle ex-ante kWh net - Central Area	Residential Sector - Sub-benefit																				Lifecycle ex-ante kWh net (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	
110	Central California Rural REN	A03	RMF1	SL-CA	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	Lifecycle ex-ante kWh gross (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	Lifecycle ex-ante kWh gross - Central Area	Residential Sector - Sub-benefit																				Lifecycle ex-ante kWh gross (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	
111	Central California Rural REN	A03	RMF1	SL-CA	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	Lifecycle ex-ante kWh net (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	Lifecycle ex-ante kWh net - Central Area	Residential Sector - Sub-benefit																				Lifecycle ex-ante kWh net (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	
112	Central California Rural REN	A03	RMF1	SL-CA	Lifecycle ex-ante Therms gross	S1: Energy Savings	Metric	Lifecycle ex-ante Therms gross (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	Lifecycle ex-ante Therms gross - Central Area	Residential Sector - Sub-benefit																				Lifecycle ex-ante Therms gross (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	
113	Central California Rural REN	A03	RMF1	SL-CA	Lifecycle ex-ante Therms net	S1: Energy Savings	Metric	Lifecycle ex-ante Therms net (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	Lifecycle ex-ante Therms net - Central Area	Residential Sector - Sub-benefit																				Lifecycle ex-ante Therms net (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	
114	Central California Rural REN	A03	RMF2	G	MT CO2eq	GHG	Metric	Global warming potential (GWP) (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	Global warming potential (GWP) (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Global warming potential (GWP) (includes electric, water, and natural gas savings and other related savings) (see table 10 for detailed account)	
115	Central California Rural REN	A04	RMF3	D3a	Lifecycle NET kWh	D3: Depth of interventions per building	Metric	Thermal energy (kWh, net, thermal) per project (building)	Thermal energy (kWh, net, thermal) per project (building)	Residential Sector - Sub-benefit																				Thermal energy (kWh, net, thermal) per project (building)	
116	Central California Rural REN	A04	RMF3	D3a	Lifecycle NET kWh	D3: Depth of interventions per building	Metric	Thermal energy (kWh, net, thermal) per project (building)	Thermal energy (kWh, net, thermal) per project (building)	Residential Sector - Sub-benefit																				Thermal energy (kWh, net, thermal) per project (building)	
117	Central California Rural REN	A04	RMF3	D3a	Lifecycle NET Therms	D3: Depth of interventions per building	Metric	Thermal energy (kWh, net, thermal) per project (building)	Thermal energy (kWh, net, thermal) per project (building)	Residential Sector - Sub-benefit																				Thermal energy (kWh, net, thermal) per project (building)	
118	Central California Rural REN	A04	RMF3	D4	Lifecycle NET kWh	D4: Depth of interventions per property	Metric	Thermal energy per participating building per project (building)	Thermal energy (kWh, net, thermal) per project (building)	Residential Sector - Sub-benefit																				Thermal energy (kWh, net, thermal) per project (building)	
119	Central California Rural REN	A04	RMF3	D4	Lifecycle NET kWh	D4: Depth of interventions per property	Metric	Thermal energy per participating building per project (building)	Thermal energy (kWh, net, thermal) per project (building)	Residential Sector - Sub-benefit																				Thermal energy (kWh, net, thermal) per project (building)	
120	Central California Rural REN	A04	RMF3	D4	Lifecycle NET Therms	D4: Depth of interventions per property	Metric	Thermal energy per participating building per project (building)	Thermal energy (kWh, net, thermal) per project (building)	Residential Sector - Sub-benefit																				Thermal energy (kWh, net, thermal) per project (building)	
121	Central California Rural REN	A04	RMF3	D5	Lifecycle NET kWh	D5: Depth of interventions - Per square foot	Metric	Thermal energy (kWh, net, thermal) per square foot	Thermal energy (kWh, net, thermal) per square foot	Residential Sector - Sub-benefit																				Thermal energy (kWh, net, thermal) per square foot	
122	Central California Rural REN	A04	RMF3	D5	Lifecycle NET kWh	D5: Depth of interventions - Per square foot	Metric	Thermal energy (kWh, net, thermal) per square foot	Thermal energy (kWh, net, thermal) per square foot	Residential Sector - Sub-benefit																				Thermal energy (kWh, net, thermal) per square foot	
123	Central California Rural REN	A04	RMF3	D5	Lifecycle NET Therms	D5: Depth of interventions - Per square foot	Metric	Thermal energy (kWh, net, thermal) per square foot	Thermal energy (kWh, net, thermal) per square foot	Residential Sector - Sub-benefit																				Thermal energy (kWh, net, thermal) per square foot	
124	Central California Rural REN	A04	RMF4	P1-P	Percent	P1: Penetration of energy efficiency programs in the eligible market - Percent of Participation	Metric	Percent of participation (eligible population) (see table 10 for detailed account)	Percent of participation (eligible population) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Percent of participation (eligible population) (see table 10 for detailed account)	
125	Central California Rural REN	A04	RMF4	P1-LJ	Percent	P1: Penetration of energy efficiency programs in the eligible market - Percent of Participation	Metric	Percent of participation (eligible population) (see table 10 for detailed account)	Percent of participation (eligible population) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Percent of participation (eligible population) (see table 10 for detailed account)	
126	Central California Rural REN	A04	RMF4	P2	Percent	P2: Penetration of energy efficiency programs in terms of square feet of eligible population	Metric	Percent of square feet (eligible population) (see table 10 for detailed account)	Percent of square feet (eligible population) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Percent of square feet (eligible population) (see table 10 for detailed account)	
127	Central California Rural REN	A04	RMF4	P3-DAC	Percent	P3: Penetration of energy efficiency programs in the eligible market - DAC	Metric	Percent of participation (eligible population) (see table 10 for detailed account)	Percent of participation (eligible population) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Percent of participation (eligible population) (see table 10 for detailed account)	
128	Central California Rural REN	A04	RMF4	P4	Percent	P4: Penetration of energy efficiency programs in the HTR market	Metric	Percent of participation (eligible population) (see table 10 for detailed account)	Percent of participation (eligible population) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Percent of participation (eligible population) (see table 10 for detailed account)	
129	Central California Rural REN	A04	RMF5	B1	Percent	MP Benchmarking Penetration	Metric	Percent of participation (eligible population) (see table 10 for detailed account)	Percent of participation (eligible population) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Percent of participation (eligible population) (see table 10 for detailed account)	
130	Central California Rural REN	A04	RMF5	B8	Percent	Benchmarking of HTR Penetration	Metric	Percent of participation (eligible population) (see table 10 for detailed account)	Percent of participation (eligible population) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Percent of participation (eligible population) (see table 10 for detailed account)	
131	Central California Rural REN	A04	RMF6	LC	PAC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Levelized cost of savings (LCOSS) (see table 10 for detailed account)	
132	Central California Rural REN	A04	RMF6	LC	PAC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Levelized cost of savings (LCOSS) (see table 10 for detailed account)	
133	Central California Rural REN	A04	RMF6	LC	PAC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Levelized cost of savings (LCOSS) (see table 10 for detailed account)	
134	Central California Rural REN	A04	RMF6	LC	TRC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Levelized cost of savings (LCOSS) (see table 10 for detailed account)	
135	Central California Rural REN	A04	RMF6	LC	TRC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Levelized cost of savings (LCOSS) (see table 10 for detailed account)	Residential Sector - Sub-benefit																				Levelized cost of savings (LCOSS) (see table 10 for detailed account)	

Central California Rural REN EE Portfolio Application  
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Pa Name:	Central California Rural REN
Budget Year:	2024-2027
BP Metrics - Portfolio Level	

Table 9: Metrics Compliance Data																																
Index	FA	Area/Proj	Area Order	Method Code	Units of Measurement	Metric Type	Metric Indicator	Business Plan A/B Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Run	Baseline Period	2017 Achievement	2018 Achievement	2019 Achievement	Short-Term Annual Targets (2019-2021)	Mid-Term Annual Targets (2021-2025)	Long-Term Annual Targets (2026-2030)	2020 Achievement	2021 Achievement	2022 Achievement	Target 2023-2027 Estimation	Target 2024	Target 2025	Target 2026	Target 2027	Metric/Category	Key Subissues		
136	Central California Rural REN	A04	RMF/6	LC	TRC Levelized Cost (\$/kWatt)	Cost per unit saved	Metric	Levelized cost of energy (LCOE) from 2016 to 2020, and 2021	90 cents/kWh (2016)	Renewable Electric - Electricity (MWh)																		Electricity is generated from renewable sources and is sold to the grid at a rate of 90 cents/kWh. The LCOE is calculated based on the 2016-2020 period. The 2021 LCOE is 85 cents/kWh. The 2022 LCOE is 80 cents/kWh. The 2023 LCOE is 75 cents/kWh. The 2024 LCOE is 70 cents/kWh. The 2025 LCOE is 65 cents/kWh. The 2026 LCOE is 60 cents/kWh. The 2027 LCOE is 55 cents/kWh. The 2028 LCOE is 50 cents/kWh. The 2029 LCOE is 45 cents/kWh. The 2030 LCOE is 40 cents/kWh.	Central California Rural REN			
137	Central California Rural REN	A04	RMF/7	EG	\$/Btu	Energy Intensity per MWh and	Indicator	Energy intensity per unit of electricity sold, including in-state energy	Energy intensity per unit of electricity sold	Renewable Electric - Electricity (MWh)																		Electricity is generated from renewable sources and is sold to the grid at a rate of 90 cents/kWh. The LCOE is calculated based on the 2016-2020 period. The 2021 LCOE is 85 cents/kWh. The 2022 LCOE is 80 cents/kWh. The 2023 LCOE is 75 cents/kWh. The 2024 LCOE is 70 cents/kWh. The 2025 LCOE is 65 cents/kWh. The 2026 LCOE is 60 cents/kWh. The 2027 LCOE is 55 cents/kWh. The 2028 LCOE is 50 cents/kWh. The 2029 LCOE is 45 cents/kWh. The 2030 LCOE is 40 cents/kWh.	Central California Rural REN			
138	Central California Rural REN	A05	C1	S1	MWh	Energy Intensity per MWh and	Indicator	Energy intensity per unit of electricity sold, including in-state energy	Energy intensity per unit of electricity sold	Renewable Electric - Electricity (MWh)																		Electricity is generated from renewable sources and is sold to the grid at a rate of 90 cents/kWh. The LCOE is calculated based on the 2016-2020 period. The 2021 LCOE is 85 cents/kWh. The 2022 LCOE is 80 cents/kWh. The 2023 LCOE is 75 cents/kWh. The 2024 LCOE is 70 cents/kWh. The 2025 LCOE is 65 cents/kWh. The 2026 LCOE is 60 cents/kWh. The 2027 LCOE is 55 cents/kWh. The 2028 LCOE is 50 cents/kWh. The 2029 LCOE is 45 cents/kWh. The 2030 LCOE is 40 cents/kWh.	Central California Rural REN			
140	Central California Rural REN	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
141	Central California Rural REN	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
142	Central California Rural REN	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
143	Central California Rural REN	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
144	Central California Rural REN	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
145	Central California Rural REN	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
146	Central California Rural REN	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
147	Central California Rural REN	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual	Central California Rural REN
148	Central California Rural REN	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
149	Central California Rural REN	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
150	Central California Rural REN	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy	First year annual 100 mt	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy	Central California Rural REN
151	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
152	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
153	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
154	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
155	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
156	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
157	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
158	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
159	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
160	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
161	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
162	Central California Rural REN	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
163	Central California Rural REN	A05	C2	G	MT CO2eq	GHG	Metric	Baseline greenhouse gas (GHG) savings, based on a baseline of total project emissions	100 reduction in total GHG savings	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	Baseline greenhouse gas (GHG) savings, based on a baseline of total project emissions	Central California Rural REN
164	Central California Rural REN	A05	C3	D2	Percent	D2: Depth of Interventions to project	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
165	Central California Rural REN	A05	C3	D2	Percent	D2: Depth of Interventions to project	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
166	Central California Rural REN	A05	C3	D2	Percent	D2: Depth of Interventions to project	Metric	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	First year annual 100 percent	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	First year annual and five-year average per unit of electricity sold, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN
167	Central California Rural REN	A05	C4	P1L	Percent	P1: Penetration of energy efficiency programs in Percent of Participation	Metric	Percent of population within a target geographic area, including in-state energy and with a percentage of overall sectoral savings	Percent of population within a target geographic area, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN	2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	11,000,000	12,217,000	13,000,000	NA	NA	Percent of population within a target geographic area, including in-state energy and with a percentage of overall sectoral savings	Central California Rural REN

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Index	FA	Activity	Area Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan A/B Description	Metric	Setup	Baseline Year	Baseline Measure	Baseline Unit	Baseline Source	2021 Achievement	2022 Achievement	2023 Achievement	Short Term Annual Target (2024-2025)	Mid Term Annual Target (2026-2030)	Long Term Annual Target (2031-2050)	2024 Achievement	2025 Achievement	2026 Achievement	2027 Achievement	Target 2031-2033 Estimate	Target 2034	Target 2035	Target 2036	Target 2037	Methology	Key Definitions
168	Central California Rural REN	AD5	C4	P1M	Percent	P1: Penetration of energy efficiency programs in the eligible market. Percent of Participation	Metric	Percent of participation relative to eligible population for small residences	Percent of participation relative to eligible population for small residences	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 100% (baseline)
169	Central California Rural REN	AD5	C4	P1S	Percent	P1: Penetration of energy efficiency programs in the eligible market. Percent of Participation	Metric	Percent of participation relative to eligible population for small residences	Percent of participation relative to eligible population for small residences	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 100% (baseline)
170	Central California Rural REN	AD5	C4	P2	Percent	P2: Penetration of energy efficiency programs in terms of square feet of eligible population	Metric	Percent of square feet of eligible population	Percent of square feet of eligible population	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 100% (baseline)
171	Central California Rural REN	AD5	C4	P4	Percent	P4: Penetration of energy efficiency programs in the HIR market	Metric	Percent of participation by customers defined as "high income"	Percent of participation by customers defined as "high income"	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 100% (baseline)
172	Central California Rural REN	AD5	C5	B2	Percent	Square Footage of Commercial Buildings Penetration for Commercial Sector	Metric	Percent of commercial square feet of eligible population	Percent of commercial square feet of eligible population	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 100% (baseline)
173	Central California Rural REN	AD5	C5	B5L	Percent	Commercial Buildings Penetration for Commercial Sector	Metric	Percent of commercial square feet of eligible population for large buildings	Percent of commercial square feet of eligible population for large buildings	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 100% (baseline)
174	Central California Rural REN	AD5	C5	B5M	Percent	Commercial Buildings Penetration for Commercial Sector	Metric	Percent of commercial square feet of eligible population for medium buildings	Percent of commercial square feet of eligible population for medium buildings	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 100% (baseline)
175	Central California Rural REN	AD5	C5	B5S	Percent	Commercial Buildings Penetration for Commercial Sector	Metric	Percent of commercial square feet of eligible population for small buildings	Percent of commercial square feet of eligible population for small buildings	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 100% (baseline)
176	Central California Rural REN	AD5	C5	B6	Percent	Benchmarking of HIR Properties	Metric	Percent of commercial square feet of eligible population for high income properties	Percent of commercial square feet of eligible population for high income properties	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 100% (baseline)
177	Central California Rural REN	AD5	C6	LC	PAC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency (LCOE), based on 10 year levelized cost	Levelized cost of energy efficiency (LCOE), based on 10 year levelized cost	Central Eastern (C)																				Residential: Percent of participating small residences (individuals with an income less than \$100,000) relative to the eligible population for small residences. The eligible population for small residences is defined as all small residences in the eligible market.	2024: 100% (baseline) 2025: 100% (baseline) 2026: 100% (baseline) 2027: 100% (baseline) 2031-2033: 100% (baseline) 2034: 100% (baseline) 2035: 100% (baseline) 2036: 100% (baseline) 2037: 10

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

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Project Name: Central California Rural REN  
Budget Year: 2024-2027  
WP Metrics: Portfolio Level

Table 9: Metrics Compliance Filing																															
Index	FA	ASA Page	ASA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan ASA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Years	2017 Achievement	2018 Achievement	2019 Achievement	Short Term Annual Targets (2020-2025)	Mid Term Annual Targets (2026-2030)	Long Term Annual Target (2031-2035)	2020 Achievement	2021 Achievement	2022 Achievement	Target 2023-2027 Calculation	Target 2024	Target 2025	Target 2026	Target 2027	Methodology	Key Definitions	
204	Central California Rural REN	A08	F3	D5	Annual NET kWh	DO: Depth of interventions. Per square foot.	Indicator	Energy conservation savings (DO, Net) from project building heat pump work	Energy conservation savings (DO, Net) from project building heat pump work	Public Sector (P)																			Residential: Total conservation savings (Residential: Net) from individual participating buildings (square footage of savings)		
205	Central California Rural REN	A08	F3	D5	Annual NET kWh	DO: Depth of interventions. Per square foot.	Indicator	Energy conservation savings (DO, Net) from project building heat pump work	Energy conservation savings (DO, Net) from project building heat pump work	Public Sector (P)																				Residential: Total conservation savings (Residential: Net) from individual participating buildings (square footage of savings)	
206	Central California Rural REN	A08	F3	D5	Annual NET Therms	DO: Depth of interventions. Per square foot.	Indicator	Energy conservation savings (DO, Net) from project building heat pump work	Energy conservation savings (DO, Net) from project building heat pump work	Public Sector (P)																				Residential: Total conservation savings (Residential: Net) from individual participating buildings (square footage of savings)	
207	Central California Rural REN	A08	F3	W1	Annual NET kWh	Water	Indicator	Energy conservation savings (DO, Net) from project building heat pump work	Energy conservation savings (DO, Net) from project building heat pump work	Public Sector (P)																				Residential: Annual savings from individual participating buildings	
208	Central California Rural REN	A08	F3	W1	Annual NET kWh	Water	Indicator	Energy conservation savings (DO, Net) from project building heat pump work	Energy conservation savings (DO, Net) from project building heat pump work	Public Sector (P)																				Residential: Annual savings from individual participating buildings	
209	Central California Rural REN	A08	F3	W1	Annual NET Therms	Water	Indicator	Energy conservation savings (DO, Net) from project building heat pump work	Energy conservation savings (DO, Net) from project building heat pump work	Public Sector (P)																				Residential: Annual savings from individual participating buildings	
210	Central California Rural REN	A07	F4	P1	Percent	P1: Penetration of energy efficiency programs in the eligible market. Percent of Participation	Metric	Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)																			Participation is defined as the first release of participant. Public sector accounts are defined as REN21 entities		
211	Central California Rural REN	A07	F4	F2	Percent	P2: Penetration of energy efficiency programs in the eligible market. Percent of Participation	Indicator	Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)																			Residential: Annual savings from individual participating buildings		
212	Central California Rural REN	A07	F4	W2	Percent	Water	Indicator	Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)																			Residential: Annual savings from individual participating buildings		
213	Central California Rural REN	A07	F5	LC	PAC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Public Sector (P)																			Levelized cost of energy efficiency (LCOE) from project building heat pump work		
214	Central California Rural REN	A07	F5	LC	PAC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Public Sector (P)																			Levelized cost of energy efficiency (LCOE) from project building heat pump work		
215	Central California Rural REN	A07	F5	LC	PAC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Public Sector (P)																			Levelized cost of energy efficiency (LCOE) from project building heat pump work		
216	Central California Rural REN	A07	F5	LC	TRC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Public Sector (P)																			Levelized cost of energy efficiency (LCOE) from project building heat pump work		
217	Central California Rural REN	A07	F5	LC	TRC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Public Sector (P)																			Levelized cost of energy efficiency (LCOE) from project building heat pump work		
218	Central California Rural REN	A07	F5	LC	TRC Levelized Cost (\$/kWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Levelized cost of energy efficiency (LCOE) from project building heat pump work	Public Sector (P)																			Levelized cost of energy efficiency (LCOE) from project building heat pump work		
219	Central California Rural REN	A07	F6	F2	\$	Investment in EE	Indicator	Total project investment in energy efficiency (LCOE) from project building heat pump work	Total project investment in energy efficiency (LCOE) from project building heat pump work	Public Sector (P)																			Investment in energy efficiency (LCOE) from project building heat pump work		
220	Central California Rural REN	A07	F7	B3	Percent	Public Sector Benchmarking Penetration in Calendar Year	Metric	Public Sector Benchmarking Penetration in Calendar Year	Public Sector Benchmarking Penetration in Calendar Year	Public Sector (P)																			Public Sector Benchmarking Penetration in Calendar Year		
221	Central California Rural REN	A07	F7	E4	Rto	Energy intensity per public sector building	Metric	Energy intensity per public sector building	Energy intensity per public sector building	Public Sector (P)																			Energy intensity per public sector building		
222	Central California Rural REN	A07	F7	B4	Percent	Public Sector Square Foot Benchmarking Penetration in Calendar Year	Indicator	Public Sector Square Foot Benchmarking Penetration in Calendar Year	Public Sector Square Foot Benchmarking Penetration in Calendar Year	Public Sector (P)																			Public Sector Square Foot Benchmarking Penetration in Calendar Year		
223	Central California Rural REN	A08	M1	S1	kWh	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
224	Central California Rural REN	A08	M1	S1	kWh	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
225	Central California Rural REN	A08	M1	S1	kWh	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
226	Central California Rural REN	A08	M1	S1	kWh	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
227	Central California Rural REN	A08	M1	S1	Therm	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
228	Central California Rural REN	A08	M1	S1	Therm	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
229	Central California Rural REN	A08	M1	S1	kWh	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
230	Central California Rural REN	A08	M1	S1	kWh	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
231	Central California Rural REN	A08	M1	S1	kWh	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
232	Central California Rural REN	A08	M1	S1	kWh	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
233	Central California Rural REN	A08	M1	S1	Therm	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
234	Central California Rural REN	A08	M1	S1	Therm	S1: Energy Savings	Metric	Energy savings (DO, Net) from project building heat pump work	Energy savings (DO, Net) from project building heat pump work	Public Sector (P)																				Energy savings (DO, Net) from project building heat pump work	
235	Central California Rural REN	A08	M2	G	MFC CO2eq	GHG	Metric	GHG emissions (DO, Net) from project building heat pump work	GHG emissions (DO, Net) from project building heat pump work	Public Sector (P)																				GHG emissions (DO, Net) from project building heat pump work	
236	Central California Rural REN	A08	M3	P1L	Percent	P1: Penetration of energy efficiency programs in the eligible market. Percent of Participation	Metric	Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)																			Participation is defined as the first release of participant. Public sector accounts are defined as REN21 entities		
237	Central California Rural REN	A08	M3	P1M	Percent	P1: Penetration of energy efficiency programs in the eligible market. Percent of Participation	Metric	Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)																			Participation is defined as the first release of participant. Public sector accounts are defined as REN21 entities		
238	Central California Rural REN	A08	M3	P1B	Percent	P1: Penetration of energy efficiency programs in the eligible market. Percent of Participation	Metric	Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)																			Participation is defined as the first release of participant. Public sector accounts are defined as REN21 entities		

Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

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Project Name: **Central California Rural REN**  
Budget Year: **2024-2027**  
WP Metrics: **Portfolio Level**

Table 9: Metrics Compliance Filing																															
Index	FA	AMA Page	AMA Order	Method Code	Units of Measurement	Metric Type	Metric Indicator	Business Plan AA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	2017 Achievement	2018 Achievement	2019 Achievement	Short Term Annual Targets (2020-2025)	Mid Term Annual Targets (2026-2030)	Long Term Annual Target (2031-2035)	2020 Achievement	2020 Measurement	2020 Measurement	Target 2024-2031 Calculation	Target 2024	Target 2025	Target 2026	Target 2027	Methodology	Key Definitions	
230	Central California Rural REN	A28	I-46	P5L	Percent	New participation	Indicator	Percent of customers participating that are enrolled in the program for the past three years, annually, by rural, medium and large customer categories	Percent of large customers participating in the program who are enrolled in the program for the past three years, annually, by rural, medium and large customer categories	Industrial (I)																		Indicator: Annual number of large industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of large industrial annual account openings by business sector.	Large industrial customers who are enrolled in the program for the past three years, annually, by rural, medium and large customer categories.		
240	Central California Rural REN	A28	I-46	P5M	Percent	New participation	Indicator	Percent of customers participating that are enrolled in the program for the past three years, annually, by rural, medium and large customer categories	Percent of medium customers participating in the program who are enrolled in the program for the past three years, annually, by rural, medium and large customer categories	Industrial (I)																		Indicator: Annual number of medium industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of medium industrial annual account openings by business sector.	Medium industrial customers who are enrolled in the program for the past three years, annually, by rural, medium and large customer categories.		
241	Central California Rural REN	A28	I-46	P5S	Percent	New participation	Indicator	Percent of customers participating that are enrolled in the program for the past three years, annually, by rural, medium and large customer categories	Percent of small customers participating in the program who are enrolled in the program for the past three years, annually, by rural, medium and large customer categories	Industrial (I)																		Indicator: Annual number of small industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of small industrial annual account openings by business sector.	Small industrial customers who are enrolled in the program for the past three years, annually, by rural, medium and large customer categories.		
242	Central California Rural REN	A28	I-45	LC	\$/kW	Cost per unit saved	Metric	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Net installed cost (\$/kW)	Industrial (I)																			Net installed cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	
243	Central California Rural REN	A28	I-45	LC	\$/kWh	Cost per unit saved	Metric	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Net installed cost (\$/kWh)	Industrial (I)																			Net installed cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	
244	Central California Rural REN	A28	I-45	LC	\$/therm	Cost per unit saved	Metric	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Net installed cost (\$/therm)	Industrial (I)																			Net installed cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	
245	Central California Rural REN	A28	I-45	LC	\$/kW	Cost per unit saved	Metric	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Net installed cost (\$/kW)	Industrial (I)																			Net installed cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	
246	Central California Rural REN	A28	I-45	LC	\$/kWh	Cost per unit saved	Metric	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Net installed cost (\$/kWh)	Industrial (I)																			Net installed cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	
247	Central California Rural REN	A28	I-45	LC	\$/therm	Cost per unit saved	Metric	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Net installed cost (\$/therm)	Industrial (I)																			Net installed cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	Cost per unit of energy efficiency (kW, Btu, and kWh) (see table 10) and (see table 11)	
248	Central California Rural REN	A28	I-46	S2	Percent first year annual kWh gross	S2: Percent Overall Sectoral Savings	Metric	Percent first year annual kWh gross	Percent first year annual kWh gross	Industrial (I)																				Percent first year annual kWh gross	Percent first year annual kWh gross
249	Central California Rural REN	A28	I-46	S2	Percent first year annual kWh net	S2: Percent Overall Sectoral Savings	Metric	Percent first year annual kWh net	Percent first year annual kWh net	Industrial (I)																				Percent first year annual kWh net	Percent first year annual kWh net
250	Central California Rural REN	A28	I-46	S2	Percent first year annual kWh gross	S2: Percent Overall Sectoral Savings	Metric	Percent first year annual kWh gross	Percent first year annual kWh gross	Industrial (I)																				Percent first year annual kWh gross	Percent first year annual kWh gross
251	Central California Rural REN	A28	I-46	S2	Percent first year annual kWh net	S2: Percent Overall Sectoral Savings	Metric	Percent first year annual kWh net	Percent first year annual kWh net	Industrial (I)																				Percent first year annual kWh net	Percent first year annual kWh net
252	Central California Rural REN	A28	I-46	S2	Percent first year annual Therms gross	S2: Percent Overall Sectoral Savings	Metric	Percent first year annual Therms gross	Percent first year annual Therms gross	Industrial (I)																				Percent first year annual Therms gross	Percent first year annual Therms gross
253	Central California Rural REN	A28	I-46	S2	Percent first year annual Therms net	S2: Percent Overall Sectoral Savings	Metric	Percent first year annual Therms net	Percent first year annual Therms net	Industrial (I)																				Percent first year annual Therms net	Percent first year annual Therms net
254	Central California Rural REN	A28	I-46	S2	Percent lifecycle ex-ante kWh gross	S2: Percent Overall Sectoral Savings	Metric	Percent lifecycle ex-ante kWh gross	Percent lifecycle ex-ante kWh gross	Industrial (I)																				Percent lifecycle ex-ante kWh gross	Percent lifecycle ex-ante kWh gross
255	Central California Rural REN	A28	I-46	S2	Percent lifecycle ex-ante kWh net	S2: Percent Overall Sectoral Savings	Metric	Percent lifecycle ex-ante kWh net	Percent lifecycle ex-ante kWh net	Industrial (I)																				Percent lifecycle ex-ante kWh net	Percent lifecycle ex-ante kWh net
256	Central California Rural REN	A28	I-46	S2	Percent lifecycle ex-ante kWh gross	S2: Percent Overall Sectoral Savings	Metric	Percent lifecycle ex-ante kWh gross	Percent lifecycle ex-ante kWh gross	Industrial (I)																				Percent lifecycle ex-ante kWh gross	Percent lifecycle ex-ante kWh gross
257	Central California Rural REN	A28	I-46	S2	Percent lifecycle ex-ante kWh net	S2: Percent Overall Sectoral Savings	Metric	Percent lifecycle ex-ante kWh net	Percent lifecycle ex-ante kWh net	Industrial (I)																				Percent lifecycle ex-ante kWh net	Percent lifecycle ex-ante kWh net
258	Central California Rural REN	A28	I-46	S2	Percent lifecycle ex-ante Therms gross	S2: Percent Overall Sectoral Savings	Metric	Percent lifecycle ex-ante Therms gross	Percent lifecycle ex-ante Therms gross	Industrial (I)																				Percent lifecycle ex-ante Therms gross	Percent lifecycle ex-ante Therms gross
259	Central California Rural REN	A28	I-46	S2	Percent lifecycle ex-ante Therms net	S2: Percent Overall Sectoral Savings	Metric	Percent lifecycle ex-ante Therms net	Percent lifecycle ex-ante Therms net	Industrial (I)																				Percent lifecycle ex-ante Therms net	Percent lifecycle ex-ante Therms net
260	Central California Rural REN	A29	A1	S1	kWh	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Total gas annual kWh gross	Residential (R)																			Percent first year annual kWh gross	Percent first year annual kWh gross	Indicator: Annual number of large industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of large industrial annual account openings by business sector.
261	Central California Rural REN	A29	A1	S1	kWh	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Total gas annual kWh net	Residential (R)																			Percent first year annual kWh net	Percent first year annual kWh net	Indicator: Annual number of medium industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of medium industrial annual account openings by business sector.
262	Central California Rural REN	A29	A1	S1	kWh	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Total gas annual kWh gross	Residential (R)																			Percent first year annual kWh gross	Percent first year annual kWh gross	Indicator: Annual number of small industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of small industrial annual account openings by business sector.
263	Central California Rural REN	A29	A1	S1	kWh	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Total gas annual kWh net	Residential (R)																			Percent first year annual kWh net	Percent first year annual kWh net	Indicator: Annual number of large industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of large industrial annual account openings by business sector.
264	Central California Rural REN	A29	A1	S1	Therm	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Total gas annual Therms gross	Residential (R)																			Percent first year annual Therms gross	Percent first year annual Therms gross	Indicator: Annual number of medium industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of medium industrial annual account openings by business sector.
265	Central California Rural REN	A29	A1	S1	Therm	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Total gas annual Therms net	Residential (R)																			Percent first year annual Therms net	Percent first year annual Therms net	Indicator: Annual number of small industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of small industrial annual account openings by business sector.
266	Central California Rural REN	A29	A1	S1	kWh	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Single-phase kWh gross	Residential (R)																			Percent first year annual kWh gross	Percent first year annual kWh gross	Indicator: Annual number of large industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of large industrial annual account openings by business sector.
267	Central California Rural REN	A29	A1	S1	kWh	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Single-phase kWh net	Residential (R)																			Percent first year annual kWh net	Percent first year annual kWh net	Indicator: Annual number of medium industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of medium industrial annual account openings by business sector.
268	Central California Rural REN	A29	A1	S1	kWh	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Single-phase kWh gross	Residential (R)																			Percent first year annual kWh gross	Percent first year annual kWh gross	Indicator: Annual number of small industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of small industrial annual account openings by business sector.
269	Central California Rural REN	A29	A1	S1	kWh	S1: Energy Savings	Metric	Total gas and electricity use (gas installed) avoided gas, electric, and demand savings in kilowatt-hours, gross and net	Single-phase kWh net	Residential (R)																			Percent first year annual kWh net	Percent first year annual kWh net	Indicator: Annual number of large industrial participants by business sector, by rural, medium and large customer categories. Description: Total number of large industrial annual account openings by business sector.

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Central California Rural REN EE Portfolio Application  
Exhibit Four Attachment A. 2024-2031

Table 18.1

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Pa Name:	Central California Rural REN
Budget Year:	2024-2027
BP Metrics Equity Segment	

THIS SET OF METRICS AND INDICATORS ARE BASED ON RECOMMENDATIONS BY CAEECC WORKING GROUPS. THEY HAVE NOT BEEN APPROVED BY THE CPUC. FINAL REPORT CAN BE FOUND AT: <https://www.caeecc.org/equity-metrics-working-group-meeting>

Index	PA	Segment	Metric/ Indicator	Metric/ Indicator #	Metric/Indicator-Description	Units of Measure	Sector	Participants	2022 Expected Results	2023 Expected Results	Target 2024	Target 2025	Target 2026	Target 2027	Methodology	Key Definitions	Proxy Explanation	Notes
Equity_1	Central California Rural REN	Equity	Metric	A1	Total # residential (SF or MF unit) equity-targeted households (HHs) served by the Equity programs	Households (HH)	Residential (RSF)	Equity-All Target Participants				70%	70%	70%				Expressed as a percentage of total participants
Equity_2	Central California Rural REN	Equity	Indicator	A1.1	Single Family – equity market support (ex: education, information, training, technical support, etc.)	Households (HH)	Residential (RSF)	MS Target Participants										Expressed as a percentage of total participants
Equity_3	Central California Rural REN	Equity	Indicator	A1.2	Single family – equity resource acquisition (ex: energy saving action, etc.)	Households (HH)	Residential (RSF)	RA Target Participants										
Equity_4	Central California Rural REN	Equity	Indicator	A1.3	Multifamily – equity market support (ex: education, information, training, technical support, etc.)	Households (HH)	Residential Sector – Multi-family (RMF)	MS Target Participants										
Equity_5	Central California Rural REN	Equity	Indicator	A1.4	Multifamily – equity resource acquisition (ex: energy saving action, etc.)	Households (HH)	Residential Sector – Multi-family (RMF)	RA Target Participants										
Equity_6	Central California Rural REN	Equity	Metric	A2	Total # MF equity-targeted buildings served by the Equity programs	Buildings	Residential Sector – Multi-family (RMF)	Equity-All Target Participants										
Equity_7	Central California Rural REN	Equity	Indicator	A2.1	Equity - Market support (ex: education, information, training, technical support, etc.)	Buildings	Residential Sector – Multi-family (RMF)	MS Target Participants										
Equity_8	Central California Rural REN	Equity	Indicator	A2.2	Equity - resource acquisition (ex: energy saving action, etc.)	Buildings	Residential Sector – Multi-family (RMF)	RA Target Participants										
Equity_9	Central California Rural REN	Equity	Metric	A3	Total # Ag or Ind. equity-targeted customers served by the Equity programs	Customers	Industrial (I) and Agricultural (A)	Equity-All Target Participants										
Equity_10	Central California Rural REN	Equity	Indicator	A3.1	Ag – equity market support (ex: education, information, training, technical support, etc.)	Customers	Agricultural (A)	MS Target Participants										
Equity_11	Central California Rural REN	Equity	Indicator	A3.2	Ag – equity resource acquisition (ex: energy saving action, etc.)	Customers	Agricultural (A)	RA Target Participants										
Equity_12	Central California Rural REN	Equity	Indicator	A3.3	Ind – equity market support (ex: education, information, training, technical support, etc.)	Customers	Industrial (I)	MS Target Participants										
Equity_13	Central California Rural REN	Equity	Indicator	A3.4	Ind – equity resource acquisition (ex: energy saving action, etc.)	Customers	Industrial (I)	RA Target Participants										
Equity_14	Central California Rural REN	Equity	Metric	A4	Total # equity-targeted public facilities and equipment or community projects served by the Equity programs	Projects	Public Sector (P)	Equity-All Target Participants				15	20	20				
Equity_15	Central California Rural REN	Equity	Indicator	A4.1	Equity - Market support (ex: education, information, training, technical support, etc.)	Projects	Public Sector (P)	MS Target Participants										
Equity_16	Central California Rural REN	Equity	Indicator	A4.2	Equity - resource acquisition (ex: energy saving action, etc.)	Projects	Public Sector (P)	RA Target Participants										
Equity_17	Central California Rural REN	Equity	Metric	A5	Total # small and medium business (SMB) equity-targeted participants served by the Equity programs	Businesses	Commercial Sector (C)	Equity-All Target Participants				TBD	TBD	TBD				target TBD after award of contracts to program implementers
Equity_18	Central California Rural REN	Equity	Indicator	A5.1	Equity - Market support (ex: education, information, training, technical support, etc.)	Businesses	Commercial Sector (C)	MS Target Participants										
Equity_19	Central California Rural REN	Equity	Indicator	A5.2	Equity - resource acquisition (ex: energy saving action, etc.)	Businesses	Commercial Sector (C)	RA Target Participants				100%	100%	100%				Expressed as a percentage of total participants
Equity_20	Central California Rural REN	Equity	Metric	A6	Total # of companies/non-profits served by the Equity Segment programs	Businesses	Commercial Sector (C)	Equity-All Target Participants				TBD	TBD	TBD				target TBD after award of contracts to program implementers
Equity_21	Central California Rural REN	Equity	Indicator	A6.1	Equity - Market support (ex: education, information, training, technical support, etc.)	Businesses	Commercial Sector (C)	MS Target Participants										
Equity_22	Central California Rural REN	Equity	Indicator	A6.2	Equity - resource acquisition (ex: energy saving action, etc.)	Businesses	Commercial Sector (C)	RA Target Participants										
Equity_23	Central California Rural REN	Equity	Metric	A7	Total # of contractors/workers served by Equity Segment Programs	Contractors/Workers	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				TBD	TBD	TBD				TBD based on further coordination with CPUC/CAEECC Equity Metrics WG
Equity_24	Central California Rural REN	Equity	Metric	A8	Total # (indicator for all) [and % (metric for PAs with no relevant legal restriction)] of contractors and/or workers that	Contractors/Workers	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				TBD	TBD	TBD				TBD based on further coordination with CPUC/CAEECC Equity Metrics WG
Equity_25	Central California Rural REN	Equity	Metric	A9	Total # (indicator for all) [and % (metric for PAs with no relevant legal restriction)] of companies/non-profits who are	Companies	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				TBD	TBD	TBD				TBD based on further coordination with CPUC/CAEECC Equity Metrics WG
Equity_26	Central California Rural REN	Equity	Indicator	B1	Expected first-year bill savings in total \$ for equity-targeted program participants (metric)	Dollars	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_27	Central California Rural REN	Equity	Indicator	B2	GHG reductions (tons), EquityAll	Lifecycle GHG reductions (tons) - N	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_28	Central California Rural REN	Equity	Indicator	B2.1	GHG reductions (tons), EquityDAC	Lifecycle GHG reductions (tons) - N	Portfolio Level (PL)– All Sectors	Equity-DAC Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_29	Central California Rural REN	Equity	Indicator	B2.2	GHG reductions (tons), EquityHTR	Lifecycle GHG reductions (tons) - N	Portfolio Level (PL)– All Sectors	Equity-HTR Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_30	Central California Rural REN	Equity	Indicator	B2.3	GHG reductions (tons), EquityUnderserved	Lifecycle GHG reductions (tons) - N	Portfolio Level (PL)– All Sectors	Equity-Underserved Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_31	Central California Rural REN	Equity	Indicator	B3	Total kWh savings, EquityAll	Lifecycle ex-ante kWh net	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_32	Central California Rural REN	Equity	Indicator	B3.1	Total kWh savings, EquityDAC	Lifecycle ex-ante kWh net	Portfolio Level (PL)– All Sectors	Equity-DAC Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_33	Central California Rural REN	Equity	Indicator	B3.2	Total kWh savings, EquityHTR	Lifecycle ex-ante kWh net	Portfolio Level (PL)– All Sectors	Equity-HTR Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_34	Central California Rural REN	Equity	Indicator	B3.3	Total kWh savings, EquityUnderserved	Lifecycle ex-ante kWh net	Portfolio Level (PL)– All Sectors	Equity-Underserved Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_35	Central California Rural REN	Equity	Indicator	B4	Total kW savings, EquityAll	Lifecycle ex-ante kW net	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_36	Central California Rural REN	Equity	Indicator	B4.1	Total kW savings, EquityDAC	Lifecycle ex-ante kW net	Portfolio Level (PL)– All Sectors	Equity-DAC Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_37	Central California Rural REN	Equity	Indicator	B4.2	Total kW savings, EquityHTR	Lifecycle ex-ante kW net	Portfolio Level (PL)– All Sectors	Equity-HTR Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_38	Central California Rural REN	Equity	Indicator	B4.3	Total kW savings, EquityUnderserved	Lifecycle ex-ante kW net	Portfolio Level (PL)– All Sectors	Equity-Underserved Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_39	Central California Rural REN	Equity	Indicator	B5	Total Therm savings, EquityAll	Lifecycle ex-ante Therm net	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_40	Central California Rural REN	Equity	Indicator	B5.1	Total Therm savings, EquityDAC	Lifecycle ex-ante Therm net	Portfolio Level (PL)– All Sectors	Equity-DAC Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_41	Central California Rural REN	Equity	Indicator	B5.2	Total Therm savings, EquityHTR	Lifecycle ex-ante Therm net	Portfolio Level (PL)– All Sectors	Equity-HTR Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_42	Central California Rural REN	Equity	Indicator	B5.3	Total Therm savings, EquityUnderserved	Lifecycle ex-ante Therm net	Portfolio Level (PL)– All Sectors	Equity-Underserved Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_43	Central California Rural REN	Equity	Indicator	B6	Community engagement activities during program design and to identify community needs and solutions	Counts	Portfolio Level (PL)– All Sectors	Equity-All Target Participants										
Equity_44	Central California Rural REN	Equity	Indicator	B7	Community engagement activities during program implementation	Counts	Portfolio Level (PL)– All Sectors	Equity-All Target Participants										
Equity_45	Central California Rural REN	Equity	Indicator	B8	Community engagement activities during program assessment	Counts	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_46	Central California Rural REN	Equity	Indicator	C1	Energy and climate benefits (monetized within TSB)	Dollars	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_47	Central California Rural REN	Equity	Indicator	C1.1	Health - “non-energy benefits” in “counts of participants receiving this benefit” until we can monetize. Reporting at least 0	Counts	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_48	Central California Rural REN	Equity	Indicator	C1.2	Comfort - “non-energy benefits” in “counts of participants receiving this benefit” until we can monetize. Reporting at least 0	Counts	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_49	Central California Rural REN	Equity	Indicator	C1.3	Safety - “non-energy benefits” in “counts of participants receiving this benefit” until we can monetize. Reporting at least 0	Counts	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_50	Central California Rural REN	Equity	Indicator	C1.4	Economic or other “non-energy benefits” (as proposed by the PAs or program) in dollars or “counts of participants receive	Counts	Portfolio Level (PL)– All Sectors	Equity-All Target Participants				N/A indicator	N/A indicator	N/A indicator				
Equity_52	Central California Rural REN	Equity	Metric		Energy and climate benefits (monetized within TSB)	Dollars	Commercial Sector (C)	Equity-All Target Participants				\$2,534,596	\$2,544,594	\$2,574,236				

Table 18.2  
Page 1 of 1

THIS SET OF METRICS AND INDICATORS ARE BASED ON RECOMMENDATIONS BY CAEECC WORKING GROUPS. THEY HAVE NOT BEEN APPROVED BY THE CPUC. FINAL REPORT CAN BE FOUND AT: <https://www.caeec.org/market-support-metrics-wg>

Index #	PA	Segment	Metric/ Indicator	Metric/Indicator #	Metric/Indicator Description	Units of Measure	Sector	Participant	2022 Expected Results	2023 Expected Results	Target 2024	Target 2025	Target 2026	Target 2027	Methodology	Key Definitions	Proxy Explanation	Notes
MS_1	Central California Rural REN	Market Support	Metric		Number and % increase/decrease of inquiries and/or requests for information on EE products and services through relevant MS	Percent/Count												
MS_2	Central California Rural REN	Market Support	Metric		Number and % increase/decrease of customers receiving information, education, or outreach on EE projects, products, and services	Percent/Count												
MS_3	Central California Rural REN	Market Support	Metric		% of customer sample aware of EE product/service (awareness)	Percent												
MS_4	Central California Rural REN	Market Support	Metric		% of customer sample that is knowledgeable of EE product/service's benefits (knowledge)	Percent												
MS_5	Central California Rural REN	Market Support	Metric		% of customer sample that is interested in obtaining an EE product/service (attitude)	Percent												
MS_6	Central California Rural REN	Market Support	Metric		% of customer sample that has taken action towards obtaining EE product/service (behavior a)	Percent												
MS_7	Central California Rural REN	Market Support	Metric		% of customers that have obtained EE products/services (behavior b)	Percent												
301	Central California Rural REN	Workforce Education and Training	Metric	WET-1	Number of Business Plan sector to jointly develop or share training materials or resources.	Count												
302	Central California Rural REN	Workforce Education and Training	Metric	WET-2	Number of participants by sector	Count						TBD	TBD					
303	Central California Rural REN	Workforce Education and Training	Metric	WET-2	Percent of participation relative to eligible target population for curriculum	Percentage						TBD	TBD					
304	Central California Rural REN	Workforce Education and Training	Metric	WET-3	Percent of total W&T training program participants that meet the definition of disadvantaged worker.	Percentage						TBD	TBD					
305	Central California Rural REN	Workforce Education and Training	Metric	WET-3	Percent of incentive dollars spent on contracts with a demonstrated commitment to provide career pathways to disadvantaged workers	Percentage						TBD	TBD					
306	Central California Rural REN	Workforce Education and Training	Metric	WET-3i	Number of Career & Workforce Readiness (CWR) participants who have been employed for 12 months after receiving the training	Count						TBD	TBD					
MS_8	Central California Rural REN	Market Support	Metric		Number of Contractors (that serve in PA service territory) with knowledge and trained by relevant MS programs to provide quality	Count						TBD	TBD					
MS_9	Central California Rural REN	Market Support	Metric		% of market actors aware of energy efficient products and/or services that can be supplied to customers (awareness)	Percent												
MS_10	Central California Rural REN	Market Support	Metric		% of market actors knowledgeable of energy efficient products and/or services that can be supplied to customers (knowledge)	Percent												
MS_11	Central California Rural REN	Market Support	Metric		% of market actors that are interested in supplying energy efficient products and/or services to customers (attitude)	Percent												
MS_12	Central California Rural REN	Market Support	Metric		% of market actors that have supplied energy efficient products and/or services to customers (behavior)	Percent												
MS_13	Central California Rural REN	Market Support	Metric		% of market actors that have performed/ensured quality installation of energy efficient products and/or services that	Percent												
MS_14	Central California Rural REN	Market Support	Metric		% of market actors knowledgeable of how to perform to perform/ensure quality installation of energy efficient products and/or services	Percent												
MS_15	Central California Rural REN	Market Support	Metric		% of market actors that are interested in performing/ensuring quality installation of energy efficient products and/or services that	Percent												
MS_16	Central California Rural REN	Market Support	Metric		% of market actors that have performed/ensured quality installation of energy efficient products and/or services that optimizes energy	Percent												
MS_17	Central California Rural REN	Market Support	Metric		Number of EE customers/market actors reached through partner networks and partner communications channels	Count												
MS_18	Central California Rural REN	Market Support	Metric		Assessed value of the partnership by partners	Unknown												
MS_19	Central California Rural REN	Market Support	Metric		% of partners that have taken action supporting energy efficiency	Percent												
MS_20	Central California Rural REN	Market Support	Indicator		Number of partners by type and purpose	Count												
MS_21	Central California Rural REN	Market Support	Indicator		Dollar value of non-ratepayer in kind funds/contributions utilized via partnerships	Dollars												
314	Central California Rural REN	Emerging Technologies (ET)	Metric	ETP-T1	Prior year: % of new measures added to the portfolio that were previously ETP technologies	Percent of New Measures												
315	Central California Rural REN	Emerging Technologies (ET)	Metric	ETP-T2	Prior Year: # of new measures added to the portfolio that were previously ETP technologies	Count of New Measures												
316	Central California Rural REN	Emerging Technologies (ET)	Metric	ETP-T3	Prior year: % of new codes or standards that were previously ETP technologies	Percent												
317	Central California Rural REN	Emerging Technologies (ET)	Metric	ETP-T4	Prior Year: # of new codes and standards that were previously ETP technologies	Count												
318	Central California Rural REN	Emerging Technologies (ET)	Metric	ETP-T5a	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all	Lifecycle net kW												
319	Central California Rural REN	Emerging Technologies (ET)	Metric	ETP-T5b	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all	Lifecycle net kWh												
320	Central California Rural REN	Emerging Technologies (ET)	Metric	ETP-T5c	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all	Lifecycle net Therms												
MS_22	Central California Rural REN	Market Support	Metric		Number of new, validated technologies recommended to Calif.	Count												
MS_23	Central California Rural REN	Market Support	Metric		Number of market support projects (outside of ETP) that validate the technical performance, market and market barrier knowledge.	Count												
MS_24	Central California Rural REN	Market Support	Metric		Cost effectiveness of a technology prior to market support programs relative to cost effectiveness of a technology after intervention by	Percent												
MS_25	Central California Rural REN	Market Support	Metric		Percent market penetration of emerging/under-utilized or existing EE products or services	Percent												
MS_26	Central California Rural REN	Market Support	Metric		Percent market participant aware of emerging/under-utilized or existing EE products or services	Percent												
MS_27	Central California Rural REN	Market Support	Metric		Aggregated confidence level in performance verification by product, project, and service (for relevant programs)	Percent												
MS_28	Central California Rural REN	Market Support	Indicator		Number of providers for performance verification services	Count												
MS_29	Central California Rural REN	Market Support	Metric		Participant data, e.g. credit score, census tract income, CAEnviroScreen Scores of areas served, zip code	Misc.												
MS_30	Central California Rural REN	Market Support	Metric		Comparisons between market-rate capital vs. capital accessed via EE programs, e.g. interest rate, monthly payment	Misc.												
MS_31	Central California Rural REN	Market Support	Indicator		Total projects completed/measures installed and dollar value of consolidated projects[1]	Count												
MS_32	Central California Rural REN	Market Support	Metric		Ratio of ratepayer funds allocated to private capital leveraged[2]	Ratio												
MS_33	Central California Rural REN	Market Support	Indicator		Differential of cost defrayed from customers (e.g., difference between comparable market rate products and program products).	Dollars												
MS_34	Central California Rural REN	Market Support	Indicator		% of market participants aware of capital access opportunities for investments in energy efficient projects, products, and/or services	Percent												
MS_35	Central California Rural REN	Market Support	Indicator		% of market participants knowledgeable about capital access opportunities for investments in energy efficient projects, products, and/or services	Percent												
MS_36	Central California Rural REN	Market Support	Indicator		% of market participants interested in leveraging capital access opportunities for investments in energy efficient projects, products, and/or services	Percent												
MS_37	Central California Rural REN	Market Support	Indicator		% of market participants that were unable to take action due to access to capital or affordability of energy efficient projects, products, and/or services	Percent												

**Attachment B.2024-2031**

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**Attachment B.2024.2031**

**Approved Meet & Confer Document by Program Administrators, Office of Ratepayers and The Utility Reform Network**

**BACKGROUND:**

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

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

Therefore, consistent with this Commission direction, this narrative and the accompanying Attachment A.2024-2031 Tables 1 through 18.2 County of San Luis Obispo provides the following information in Attachment B.2024-2031.

**I. DESCRIPTION OF IN-HOUSE EE ORGANIZATIONAL STRUCTURE & ASSOCIATED COSTS**

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

**1. Functions conducted by each department/organization**

The County of San Luis Obispo is the Internal Administrator for the Central California Rural REN (CCR REN). The County of San Luis Obispo's Planning and Building Department is responsible for programmatic oversight, procurement, design, evaluation, data collection, and reporting. The County of San Luis Obispo's Planning and Building Department finance team is responsible for accounts payable and receivable. The County of San Luis Obispo's IT department is responsible for data management tools and security.

The Central California Rural REN is made up of four implementing agencies responsible for implementing Central California Rural REN programs within their respective regions:

Central California Rural REN Region	Partner Organization	Counties Served
Central Coast	Association of Monterey Bay Area Governments (AMBAG)	Monterey, San Benito, Santa Cruz
	County of San Luis Obispo (SLO)	San Luis Obispo
San Joaquin Valley	San Joaquin Valley Clean Energy Organization (SVCEO)	Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare
Eastern Sierra	High Sierra Energy Foundation (HSEF)	Inyo, Mono

Specific functions of each organization are detailed in the Energy Efficiency Management Structure and Org Chart section below.

## 2. Energy Efficiency Management Structure and Org Chart

An organization chart illustrating the management structure of the Central California Rural REN is provided below.

**The Internal Administrator**, County of San Luis Obispo, acts as the Lead Agency and is responsible for: filing required regulatory submissions and reporting to the CPUC; representing Central California Rural REN in CPUC proceedings and on committees as necessary; managing portfolio-wide procurement and contracts; providing oversight of budgets; coordinating with IOUs on invoicing and regulatory requirements. The Administrator can delegate roles and responsibilities to members of the Leadership Team.

**The Leadership Team** is the Central California Rural REN Board of Directors and makes portfolio-level strategy, operations, and policy decisions. The Leadership Team is comprised of one representative from each partner. Each representative holds one equal vote. To conduct Leadership Team business or hold a vote, a minimum of three (3) Leadership Team members (or alternates) must be present. A simple majority of the leadership team is required to pass consent items, while a two-thirds majority is required on any other vote.

**Regional Advisory Committee:** provides input and recommendations regarding opportunities to update and enhance programs. This advisory committee will be formed during the first four months of operation and will be comprised of a variety of stakeholders from each region.

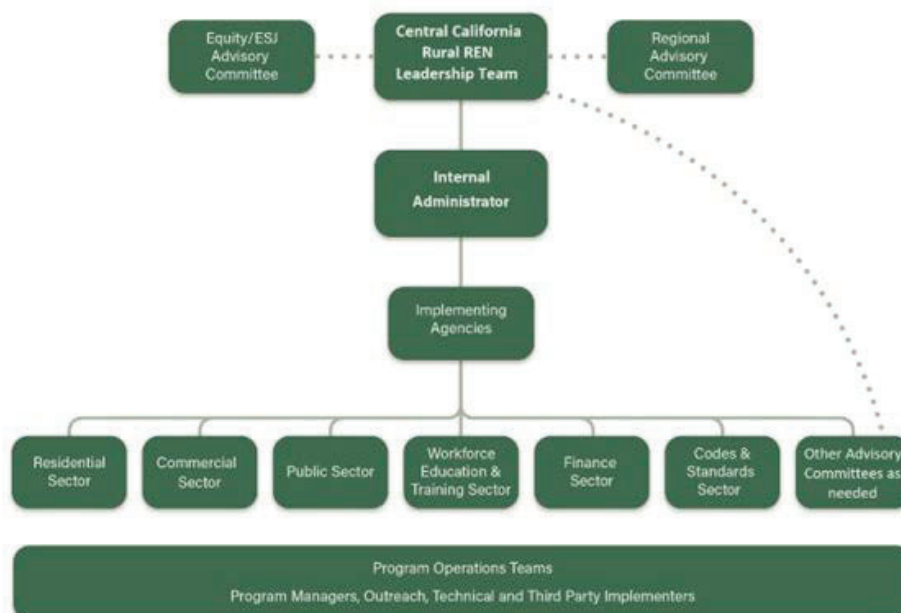
**Equity and ESJ Advisory Committee** provides input and recommendations regarding opportunities to incorporate and enhance equity and diversity of the organization and its programs. This advisory committee will be formed during the first four months of operation and will be comprised of advocates of diversity, equity and inclusion from local governments, community-based organizations, schools/colleges, and other organizations within Central California communities.

**Implementing Agencies** are responsible for engaging the counties they serve and designing and delivering programs that reflect the existing service gaps and needs expressed in those counties. The manner of engagement is within the authority of the Implementing Agencies which makes its own decisions regarding staffing, procurement, etc., and may expand in future portfolio cycles.

**Member Cities, Towns, and Counties** are the Central California Rural REN constituency and have a critical voice in the decision-making process, particularly in terms of articulating service gaps and defining the unique needs of customers in their counties.

**Technical Advisory Committee(s)** includes staff from Implementing Agencies that have expertise in program design, development, implementation, and management. This committee is responsible for helping to define program offerings; monitoring program performance, challenges, and barriers; augmenting, altering, and adapting programs to address problems, and supporting the roll-out of new programs.

**Program Operations Teams** include the sector and program technical and outreach leads, consultants/third parties, and managers who run sector programs.



3. Staffing needs by department/organization, including current and forecast for 2023, as well as a description of what changes are expected between 2024-2027 or why it's impossible to predict beyond 2024, if that's the PA's position.

Forecasted staffing needs are characterized as Full Time Equivalent (FTE) by positions and are provided in the "Portfolio FTE" of Attachment A.2024-2031.

4. Non-program functions currently performed by contractors (e.g. advisory consultants), as well as a description of what changes are expected between 2024-2027 or why it's impossible to predict beyond 2024, if that's the PA's position.

Central California Rural REN will not have any contractors performing non-program functions.

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

Costs are listed as a function of the submitted business plan scope of programs. Over the course of the business plan period, anticipated potential drivers of cost changes will be any significant changes in costs for necessary material, unforeseen labor costs, or restructuring of programs.

6. Explanation of method for forecasting costs

Costs are forecast based on calculated fully loaded rates for personnel, actual rates for consultants and contractors, and experience of managing energy efficiency programs by County of San Luis Obispo and implementing agencies.

**B. Table showing PA EE "Full Time Equivalent" headcount by department/organization**

TURN and CAL PA like this example, taken from testimony PG&E's 2017 GRC addressing its Energy Procurement department. We would be looking for 2019, 2020, or 2021 "recorded" positions, depending on what's most appropriate for the PA, or both, if that provides the most clarity. For forecast years, we'd want at least 2024.

CCR REN's response is provided in Attachment A.2024.2031 – Table 10 'Portfolio FTE'.

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

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

Central California Rural REN's forecast of these costs are provided in Attachment A.2024-2031 – Tables 9 'Portfolio Summary', and Tables 10-16, containing budget request details.

2. Identify any capital costs

There are and will be no capital costs associated with the Central California Rural REN.

**D. Table showing cost drivers across the EE organization**

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

- While this example pertains to departmental cost increases, in our case, cost increases or decreases would be attributed to major cost drivers.

As the Central California Rural REN Business Plan and 2024-2027 Portfolio Application has not yet been approved, it is difficult to determine cost drivers. Notwithstanding, Central California Rural REN makes a good faith effort to provide the information in the manner requested.

Tables 4.1 and 4.2 of Attachment A.2024-2031 depicts the Central California Rural REN's forecasted program budgets. Upon the Central California Rural REN Business Plan and 2024-2027 Portfolio approval, the departmental cost drivers would include program ramp-up, number of programs in the portfolio, number of participating agencies, number of participants in a program, rebate application processing, education and training of partners, contractors and customers, as well as a number of other factors that may play into the administration and implementation of Central California Rural REN programs.

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

1. When an employee spends less than 100% of her/his time on EE, how are costs tracked and recovered (e.g., on a pro rata basis between EE rates and GRC rates; when time exceeds a certain threshold, all to EE; etc.).

The County of San Luis Obispo's Planning and Building Department has established procedures to track costs. The County of San Luis Obispo's Planning and Building department consistently implements grant-funded projects, which necessitate systems to ensure all staff time is tracked on an hourly basis by program and funding source. All employees complete weekly timecards allocating their time worked to categories, which are input into the county's financial enterprise resource planning software and used to track and allocate expenses as needed. This cost tracking system will be easily implemented for Central California Rural REN programs.

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

While the CCR REN Business Plan and 2024-2027 Portfolio Application has not yet been approved, the hourly rates used to calculate the zero-based budgeting forecast in Attachment A 2024.2031 are fully loaded rates. Therefore, the cost of non-EE employees performing general functions which qualify as overhead (e.g., Administration and Facilities, Technology Services, Legal, etc.) are shared amongst County of San Luis Obispo Planning and Building Department employees and contained within the fully loaded rate of EE employees. In the event there is no direct staff time charged to EE work, the EE programs do not incur an overhead cost.

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

EE functions most likely performed by employees who do non-EE work are contracts management, information technology, and marketing.

4. How are burden benefit-related administrative and general (A&G) expenses for employees who work on EE programs recovered (EE rates or GRC rates)? \*\*PG&E allocates these costs to EE pursuant to a settlement agreement with MCE and TURN, which was adopted in D.14-08-032.

Not applicable to Central California Rural REN.

5. When EE and non-EE activities are supported by the same non-labor resources, how are the costs of those resources or systems allocated to EE and non-EE activities?

General administrative costs are factored into the fully loaded rates for employees and are therefore recovered proportionally to the amount of work being done in individual programs.

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

O&M costs that support both EE and non-EE functions are included in the fully loaded labor rates and therefore allocated proportionally to the programs charging labor.



## II. BUDGET TABLES INCLUDING INFORMATION IDENTIFIED IN THE SCOPING MEMO

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

### A. Attachment-A, Question C.8

“Present a single table summarizing energy savings targets, and expenditures by sector (for the six specified sectors). This table should enable / facilitate assessment of relative contributions of the sectors to savings targets, and relative cost-effectiveness.”

TURN and CAL PA invite the PAs to propose a common table format for this information. We don’t have anything specific in mind. Additionally, include a brief description of the method used by the PA to estimate the costs presented in the C.8 Table.

Central California Rural REN’s response is provided in Attachment A.2024-2031 – Table 7.2.

### B. Attachment-A, Question C.9

“Using a common budget template developed in consultation with interested stakeholders (hopefully agreed upon at a “meet and confer” session), display how much of each year’s budget each PA anticipates spending “in-house” (e.g., for administration, non-outsourced direct implementation, other non-incentive costs, marketing), by sector and by cross-cutting program.”

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

Central California Rural REN’s response is provided in Attachment A.2024-2031 - Tables 11 through 16.

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

Costs are estimated using a zero-based budgeting approach, historical data from experience running programs, staff wage scales and anticipated cost of living increases, established consultant rates, as well as research into other programs and costs.

### C. Attachment-A, Question C.10

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

TURN and CAL PA invite the PAs to propose a common table format for this information. We don’t have anything specific in mind. Additionally, include a brief description of the method used by the PA to estimate the costs presented in the C.10 Table.

Central California Rural REN does not currently administer any statewide programs, as indicated in Attachment A.2024-2031 - Table 6 “Statewide Programs”.