

Local Energy Resources Network



Meeting 27
February 13, 2024

*Featuring Regional Energy Networks
(RENs) on Normalized Metered Energy
Consumption (NMEC) programs*



Welcome!

Purpose

Interactive 1-hour meetings designed to be a regular space where local governments - and those who work with them - can help each other learn about (and possibly inform) available opportunities to advance their energy and climate goals.

TODAY'S AGENDA

- Opportunity Roundtable + Spotlight
- Featured Panel and Q&A: NMEC
- BPC Workshop - CARB Research
- Optional: Extended 15 minutes for Bonus Breakouts



Opportunity Roundtable

Need/Have
Board

View all
Opportunities

Policy Drives Investment

Agencies Scope/ Design Assistance Programs & Gather Input

Applicants Apply to Funding Solicitation

State

- FY 21-22 Budget (\$15B climate resilience)
- FY 22-23 Budget (\$38.8B climate change)
- Cap and Trade auction revenue allocations (~\$19B raised since 2013)
- FY 23-24 Budget
- State agency proceedings (e.g. *CPUC microgrid, CEC IEPR, *CARB Scoping Plan)
- 9th circuit panel of judges denied petition for an en banc rehearing of Berkeley's gas ordinance.

Federal

- Infrastructure Investment and Jobs Act (IIJA) (2021) = \$47B in climate resilience funding
- FY 22-23 Budget (\$44.9B climate change)
- Inflation Reduction Act (IRA) (2022)
- Biden's Proposed FY 23-24 Budget (\$52.2B climate change)

Funding

- CEC: Build Grid Asset Enhancements for Grid Reliability - due February 20
- CEC: A Decision Tool to Electrify Homes with Limited Electrical Panel Capacity - due March 5
- **HCD: Affordable Housing and Sustainable Communities (AHSC) Program (Round 8; \$675M) - due March 19**
- CEC: EPIC Grid-Supportive Transportation Electrification Grants - due March 29
- EPA: Climate Pollution Reduction Grants (\$4.6B), Phase 2 Implementation - due April 1, 2024. EPN app guide
- CEC: Charging Infrastructure for Government Fleets - due April 5
- EPA: Strategies to Increase Hydropower Flexibility - Concept Papers due January 18 - due April 11
- DOE: Solutions for Lasting, Viable Energy Infrastructure Technologies (SOLVE IT) Prize (\$5M) - due April 12
- DOE: EECBG Formula Grants and Voucher - due April 30
- DOE: Buildings Energy Efficiency Frontiers & Innovation Technologies (BENEFIT) - Concept Paper due Dec 18 - due April 30
- DOE: Technology Integration (\$15M) : Concept papers due March 12; applications due April 30
- EPA: Environmental and Climate Justice Community Change Grants - Nov 21, 2024. EPN app guide.
- IRS: Consumer clean energy tax credits live!

Other Assistance

- CivicWell: Host a CivicSpark Fellow: applications due June 7

Input

- CARB: Public Workshop on Draft Priority Climate Action Plan via Climate Pollution Reduction Program by early Feb 2024
- State/Local Energy & Climate Coordination (SLECC); next meeting: **March on reducing application burden**
- CARB: Community Engagement Model: Comment due April 3
- CARB: Research Strategy Roadmap: submissions due April 10



Opportunity Spotlight

EPA Community Change Grants Program (due 11/21/24; 97pg NOFO)

Funding Instrument Type: Cooperative Agreement

Cost Sharing or Matching Requirement: No

Current Closing Date for Applications: rolling thru Nov 21, 2024

Estimated Total Program Funding: \$ 2,000,000,000

Awards: Track 1: Community-Driven Investments for Change
150 \$10-\$20M awards, Track 2: Meaningful Engagement for
Equitable Governance 20 \$1-\$3M awards

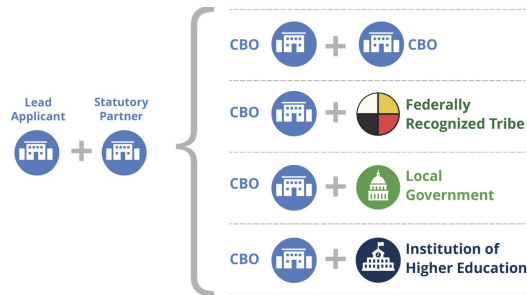
Grant duration: 3 years

Description: Community-driven projects that address climate
challenges and reduce pollution while strengthening
communities through thoughtful implementation.

Technical Assistance: *Pre-award* application support, capacity
building, project planning, and *post-award* support. [EPN app guide](https://www.epa.gov/inflation-reduction-act/inflation-reduction-act-community-change-grants-program)

- <https://www.epa.gov/inflation-reduction-act/inflation-reduction-act-community-change-grants-program>
- <https://grants.gov/search-results-detail/351071>

Eligible Entities:



Note: While the CBO does not have to be the "Lead Applicant," all statutory partnerships must include a CBO.

Eligible Activities: must benefit a DAC; must be place-based and include a Project Area Map. No regional or statewide projects

Track 1 Requirements

- 1 Climate Action Strategy
- 2 Pollution Reduction Strategy
- 3 Community Engagement and Collaborative Governance Plan
- 4 Community Strength Plan
- 5 Readiness Approach
- 6 Compliance Plan

Climate Action

Applications must address at least one climate action strategy that serves to increase a community's resilience or adaptive capacity:

- Green Infrastructure & Nature-Based Solutions
- Mobility & Transportation Options
- Energy-Efficient, Healthy and Resilient Housing & Buildings
- Microgrid Installation
- Community Resilience Hubs
- Brownfield Redevelopment
- Waste Reduction & Management
- Workforce Development



Featured Panel

REN Normalized Metered Energy Consumption (NMEC) Programs



Assistant Director of Energy
Services
The Energy Coalition
Lauren Seymore



BayREN Business Program
Lowell Chu



Energy Portfolio Manager,
County of Santa Barbara
April Price



Environmental Initiatives
Division Manager,
SoCalREN
Lujana Medina



Inland Regional Energy Network (I-REN) Public Buildings Normalized Metered Energy Consumption (NMEC) Program

Monthly CCEC Local Energy Resources Network (LERN) Meeting
February 13, 2024

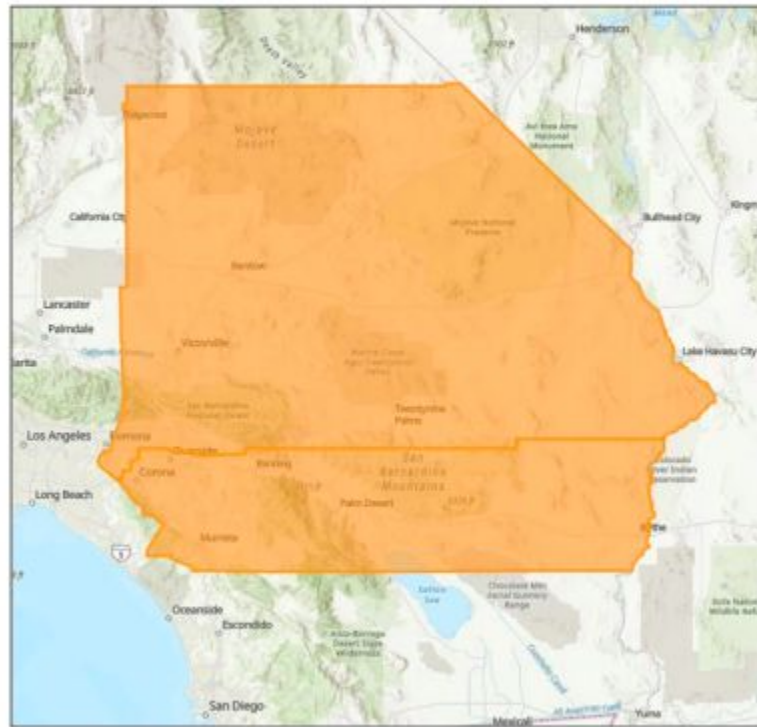
Eligible Public Agencies

Who is eligible for I-REN Public Sector services and support?

- Public agencies* in the I-REN territory (San Bernardino and Riverside Counties)
 - Cities
 - Counties
 - Special districts
 - K-12 school districts
 - Tribes
 - Water/wastewater agencies/districts
 - Other public agencies

**All facilities and infrastructures with an electric and/or natural gas account serviced by SCE and SCG that lists an eligible public agency as the customer on record within the program geographic territory are eligible for I-REN services*

I-REN Territory



I-REN NMEC Program



We help public agencies save energy and money at community-serving buildings with funding to complete holistic energy efficiency projects. I-REN focuses on deep emissions reductions at critical emergency operation and cooling centers by offering cash incentives for savings achieved. We work alongside agency staff to ensure they have the funding they need to complete community projects, with increased incentives for projects with higher savings.

NMEC Program Incentives

Base Rate

Projects will be incentivized based on claimable energy savings achieved

Energy Savings	Base Incentive Rate
kWh	\$0.50
kW	\$200.00
therms	\$1.00

Kickers

- Tiered kWh incentive “kickers” will be available to encourage deep energy savings (over 15% total savings at the meter) and holistic projects
- kWh incentives will be doubled for projects that occur at critical, cooling, or resiliency centers

Total Savings Percentage*	Incentive Rate	Critical/Cooling/Resiliency Center Rate
Up to 15%	\$0.50/kWh	\$1.00/kWh
16-30%	\$0.60/kWh	\$1.20/kWh
31-50%	\$0.70/kWh	\$1.40/kWh
Over 50%	\$1.00/kWh	\$2.00/kWh

* Total project savings will have to pass eligibility criteria as per the NMEC Rulebook



Thank you!

Visit **iren.gov** to learn more

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LERN

NMEC Residential Program

FEBRUARY 13, 2024 | April Price



3C-REN: Tri-County Regional Energy Network

- Three counties working together to improve energy efficiency in the region
- Services for:
 - **Building Professionals:** industry events, training, and energy code compliance support
 - **Households:** support with home energy upgrades
- Funded by ratepayer dollars that 3C-REN returns to the region
- Focus on Hard to Reach Customers!





HOME
ENERGY
SAVINGS

Single-Family Program

- Discounted pricing available from enrolled contractors—up to 75% off project costs.
- Projects that save energy (gas or electricity)* are eligible for incentives when you work with a 3C-REN enrolled contractor.
- The actual incentive depends on how much energy the project will save.

*not solar



Enrolled Contractors

Example: HVAC Enrolled Contractors



Allstar Heating and Air Conditioning

Trustworthy HVAC Service

<https://www.allstarcomfortair.com/>

(805) 242-9638



Bee Right There

Un"BEE"table Care For Your Heating & Air

www.callthebee.com

(805) 864-2276



Community Action Partnership of SLO

Helping low-income homeowners buy efficient energy systems in San Luis Obispo.

capslo.org/energy-services

805 541-4122



Highland Air

Furnace + AC service, repair, maintenance & installation

www.highland-air.com

(805) 210-9771



Pacific Aire

Your premier heating, ventilation and air conditioning company.

<https://www.pacaire.com/>

800-869-0057



RR HVAC & Electrical Company

Quality electrical services at a competitive rate.

<https://rrelectrichvac.com/>

(805) 954-9359



Southland Heating & Air Conditioning

Heating & Air Conditioning Installation Services

<https://southlandec.com>

(805) 422-7754



Temp Air System

High-Efficiency HVAC System provider for homeowners in the Greater LA area.

www.tempairsystem.com

(626) 333-3409



TriCounty Services

HVAC, Indoor Air, Fireplace & Plumbing in Ventura & Santa Barbara Counties

www.tri-county-aire.com

(805) 500-2944



3C-REN Eligible Upgrades: Heat Pumps & Beyond



Program priorities: HTR, Electrification, Local Contractors

- Incentives for HTR customers are 3X higher than for market rate customers
- For Electrification projects, we increased the value of therm savings and devalued the kWh impacts
- Additional multiplier for projects that utilize a local contractor



Incentives

Heat Pump HVAC System

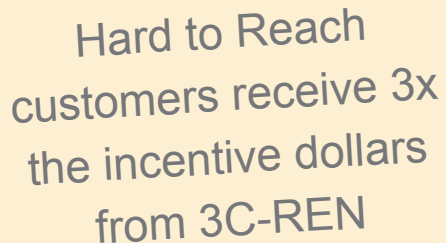
- \$3,000 average (but big variance)

Heat Pump Water Heater

- \$1,000 average

All energy efficiency projects in 2023

- Market-rate customer incentives were clustered in the \$500-\$5,000 range



Hard to Reach
customers receive 3x
the incentive dollars
from 3C-REN

Incentive Pathway

- 1) Contractor talks to a customer about a project that saves money.
- 2) Contractor estimates the energy savings associated with the project, and submits the project to Recurve
- 3) Contractor is paid half of the estimated incentives
- 4) Contractor pays the customer all of the upfront payment
- 5) Contractor is paid the balance of the incentive over the year following installation based on ACTUAL energy savings (performance payment)



Vision

- HTR Customers are prioritized by contractors
- Prices for EE and Electrification projects drop in our region
- Contractors staff up because of the incentive streams (performance payments)
- Contractors sell more electrification projects because of higher incentives and become comfortable with electrification
- Customers do comprehensive energy upgrades
- Our incentives, when stacked with other programs result in a “Direct Install-like” experience for HTR customers.





Thank you!

For more info:
3c-ren.org

For questions:
info@3c-ren.org



TRI-COUNTY REGIONAL ENERGY NETWORK
SAN LUIS OBISPO • SANTA BARBARA • VENTURA

SoCalREN Public Sector Metered Savings Program

February 2024



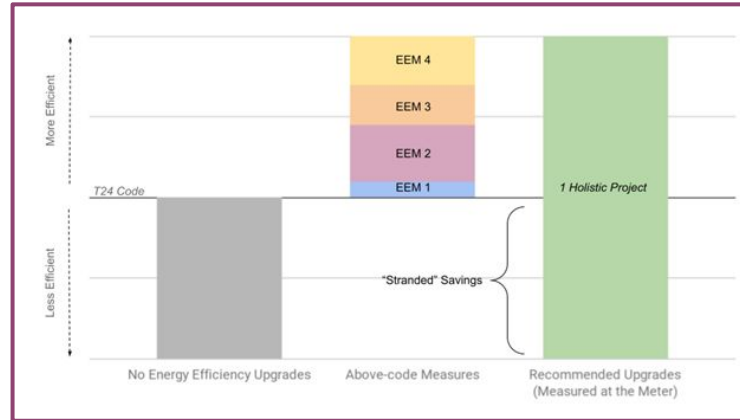
About the Metered Savings Program

It is a site-Level NMEC offering for facilities serviced by SCE

Energy savings are based on energy usage measurements using the facility's energy meter before and after the project installation phase

Program Goal

To capture stranded savings and reduce GHG emissions at facilities such as city halls, fire stations, schools, etc.

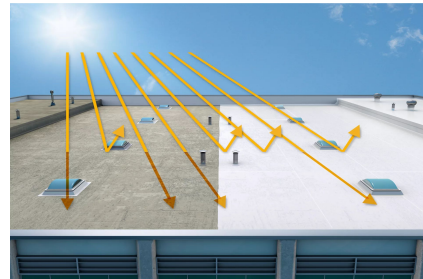


Graph: stranded savings depiction.



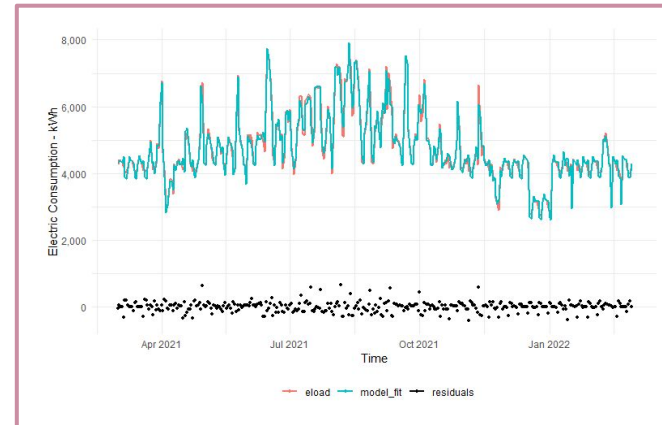
Eligible Measures and Incentives

- Eligible measures:
 - Energy efficiency measures currently allowed in Custom and Deemed program offering
 - Including: Behavioral, retrocommissioning, operational measures (BRO), as well as building envelope measures
- Incentives are paid based on lifecycle GHG emission savings:
 - **\$25/MTCO2** for non-underserved facilities
 - **\$50/MTCO2** for underserved facilities



Program Best Practices

- Utilize the NMEC Rulebook for guidance
- Post-installation inspections of all measures
- Maintain direct access to participating facilities' EMS programming
- Facility occupancy tracking - allows for the best post-installation energy model and most accurate energy savings measurement
- Program participants: best incentive pathway for a whole building retrofit
 - NMEC is the best option to obtain the most incentive funds for energy efficiency work

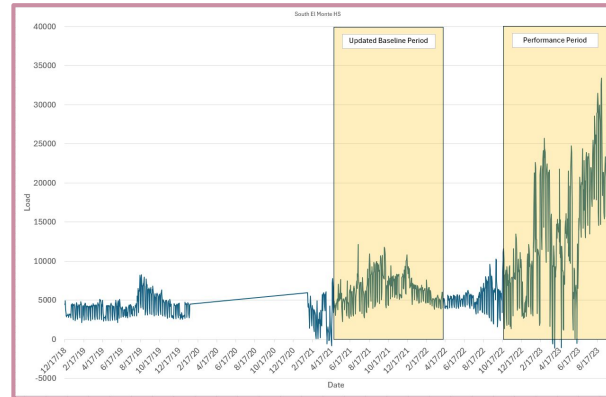


Graph: example of a good NMEC model fit.



Learning Lessons

- Live usage data flow accessible to the implementer during the performance period
 - Couple with alerts for usage anomalies
- Having an accurate facility schedule with estimated occupancy levels is essential for proper modeling
- Higher incentive levels for underserved customers increases customer participation and funnels funds where they are needed the most
- Incentives paired with a low-to-no-interest financing option is vital for large-scale projects



Graph: Example of a poor performance period.



El Monte Union High School District



Above: wireless thermostat installed at Ledesma High School

Below: Battery storage at South El Monte High School



- Underserved School District
- Energy resiliency upgrades across 5 schools
- Included HVAC modernization measures and battery storage*

EE Measures: HVAC unit replacement, HVAC EMS upgrades, demand control ventilation, central plant cooling tower VFD

*Not supported with EE funds



\$1,161,00+
lifetime cost savings



7,687,000+ kWh
lifetime savings



1,170+ cars
taken off the road
lifetime kWh savings equivalency



“[SoCalREN] provides added capacity to complete projects that a school district does not provide. SoCalREN was most beneficial in beginning stages of planning the project and getting buy-in.”

Lena Luna, EMUHSD Energy Champion



Thank You

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Audience Q&A

Please add your questions in the chat or raise your hand

BPC Workshop

Topic: Discussion

Deadline Extended!

15th Annual CCEC
Forum Call for Session
Proposals Open Now

Submit by February 21st, 2024



- CARB: [Research Strategy Roadmap](#): virtual meeting on Feb 29; comment/concept submissions due April 10
 - Option 1: I would like to submit a 300-word project concept.
 - Option 2: I would like to submit a comment on air quality or climate concerns affecting my community.
 - **Option 3: I would like to submit a long-term research priority for consideration in the 5-Year Strategic Research Plan covering funding years 2025-2030.**
 - May be a productive pathway to make traction on some of the recommendations many of you made in our recent listening session on "Barriers to Local Climate Action," such as:
 - Determine the level of emission reductions needed to come from local action to met CA climate goals
 - Develop statewide data tools/portals for energy and VMT data
 - Conduct a statewide inventory and map of emissions by jurisdiction
 - Research opportunities fund key local emission reduction measures
 - Identify pathways to overcome electrical load capacity constraints thwarting local progress on decarbonization
 - Review legal options for local governments managing CAPs and CEQA requirements

Local Energy Resources Network



What's Next?

- Bonus Breakouts up next!
- Next meeting **March 12th, 2024**
- Share [invitation](#) with others



Optional: Bonus Breakouts

Thanks for joining us!

This is a space for informal discussion among the LERN network. Feel free to:

- Offer an announcement, success story, or opportunity
- Share a need for information, collaborators, or advice
- Raise a suggested topic or speaker for future LERNS

If you need an in-depth discussion, you can pitch a specific bonus breakout topic and invite others to join you (today or we can plan ahead for next month)



2024 Opportunities Prospective

*Here are a few opportunities on the horizon that we are tracking.
What are you looking forward to in 2024?*

**EPA Climate Pollution Reduction Grant (CPRG) -
Implementation Grant**

**CEC/CPUC/CARB: SB 100 “The 100% Clean
Energy Act of 2018” - Joint Agency Report**

CPUC Equity and Access Grants

SGC Housing, Equity, Climate Progress Report

**CEC’s Equitable Building Decarbonization
Program - Solicitation**

**CEC’s Community Energy Resilience
Investment (CERI) Program**

**CEC’s \$600M allocation for DOE Home Energy
Rebate Program + \$10 Contractor Training
Program**

**CEC’s \$18M formula allocation for DOE
Assistance for Latest and Zero Building
Energy Code Adoption**

**CEC’s \$10M allocation for DOE EECBG
Program**



CCEC Serves Local Needs



wEEkly Update



CURRENTS Quarterly



Webinars



Annual Forum



Active Funding Opportunities



Funding Program Database



Technical Assistance



Technical Assistance Directory



Local Government Roundtables



Best Practice Database



Interviews and Case Studies