

# SoCaIREN Advisory Committee Meeting

December 11th, 2024  
10:30 am - 12:00 pm

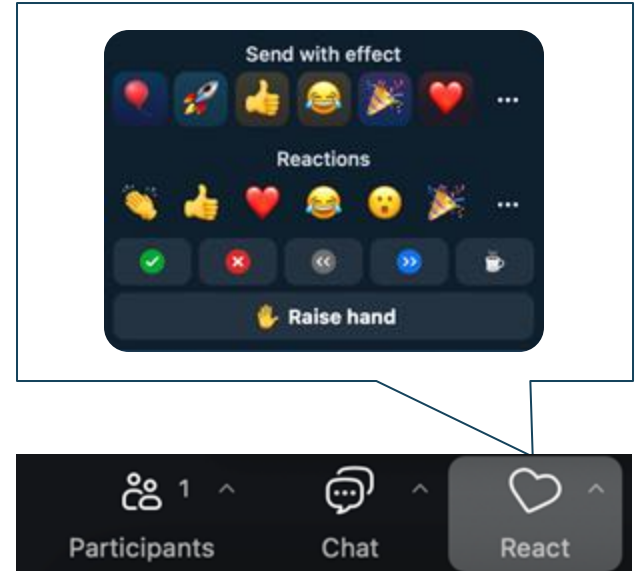


# Administration

- This webinar is being recorded
- Please keep microphone muted unless you want to speak
- If you are experiencing any technical issues during the webinar, please contact **Amanda Hassan** at **[ahassan@energycoalition.org](mailto:ahassan@energycoalition.org)**

# Directions for Chat

- We will be having an open discussion throughout the meeting!
- If you would like to ask your question verbally click on the “raise hand” function.
- If you would like to stay muted, send us your question or comment through the chat!



# Who is Participating Today?

## Invited Guests



## Advisory Committee Members



## SoCalREN Staff, Implementers & Regional Partners

# SoCalREN Advisory Committee



**Guide and Advise**



**Collaborate and Innovate**



**Be Informed**



**Be an Advocate**

# Agenda

<b>SoCalREN Welcome</b>	Lujuana Medina	7 min
<b>Networking</b>	All	13 min
<b>TECH &amp; HEERA Program Updates</b>	Jeffery Liang	20 min
<b>Regulatory &amp; Policy Updates</b>	Courtney Owen	20 min
<b>City of Palmdale Energy Programs Update</b>	Ben Lucha	15 min
<b>Closing Remarks</b>	Lujuana Medina	5 min
<b>Adjourn</b>	All	

# SoCaIREN Welcome

Lujuana Medina, County of Los Angeles



# Networking





# Networking Activity - Break Out Rooms

- What is your favorite holiday tradition?
- What are you looking forward to in 2025?



# TECH & HEERA Program Updates

Jeffery Liang, Energy Solutions



# Policies and Programs for Residential Electrification

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December 11, 2024



# Climate Goals

## SB 32:




40% GHG reduction below 1990 levels by 2030

## SB 100:

100% clean electricity by 2045

## Executive Order B-55-18:

Economy-wide carbon neutrality by 2045  
(In July 2021, Governor Newsom directed CARB to review feasibility of carbon neutrality by 2035)

	2027	2029	2029	2030	2031
 Agency	Bay Area Air Quality Management District	Bay Area Air Quality Management District	South Coast Air Quality Management District	CARB (in development)	Bay Area Air Quality Management District
 Water Heating	Zero NOx (small)		Zero Emissions (res + com)	Zero Emissions (res + com)	Zero NOx (medium)
 HVAC		Zero NOx (res + com)			

# Leverage California's Heat Pump Investment to Help your Business

*California has a goal of 6 million heat pumps by 2030....and they are investing big to get there*

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## **TECH Clean California**

- \$120M
- \$50M added
- \$95M added

**SGIP HPWH: \$80M**

**Equitable Electrification: \$600M+**

**Inflation Reduction Act: \$292M**


# TECH Clean California Overview

## What is TECH Clean California?

- California’s flagship heat pump market transformation initiative for space/water heating is designed to help put California on a path towards carbon-free homes by 2045
- Guiding principles of scale, equity, regulatory simplicity, and market transformation
- Incentives offered statewide
- \$95M in new funding from the Greenhouse Gas Reduction Fund (AB 209 & AB 102)

*For a more complete overview of TECH Clean California, check out the slides and recordings from our previous quarterly Stakeholder Meetings at [techcleanca.com/about/reporting](http://techcleanca.com/about/reporting).*

### California Heat Pump Goals



Heat Pump Water Heating



Heat Pump HVAC

**6 million heat pumps installed by 2030**

**Climate ready / friendly homes:**

- 3 million by 2030
- 7 million by 2035

**50% of funding** delivered to low-income households or disadvantaged communities

Source: California Office of Governor website. July 2022. "Governor Newsom Calls for Bold Actions to Move Faster Towards Climate Goals"

**Our Team:**



The TECH Clean California initiative is funded by California ratepayers and taxpayers under the auspices of the California Public Utilities Commission.

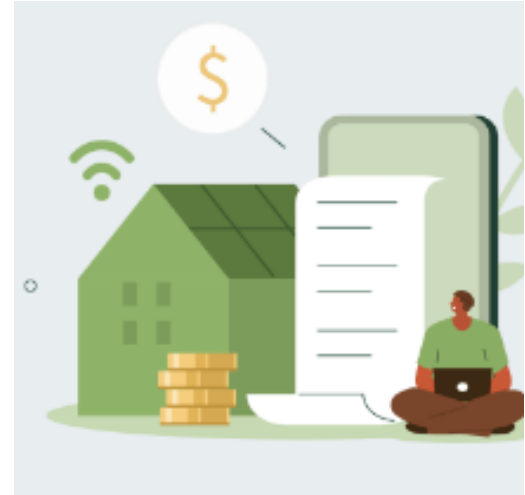
# What is TECH Clean California?



- California's statewide program to promote adoption of heat pump space heating and heat pump water heating.
- Over 800 California contractors already participating.
- Over \$110 million in heat pump incentives paid.
- Over 46,500 heat pump projects funded.

# Overview: Home Energy Rebate Programs – Inflation Reduction Act

- \$8.8 billion for Home Energy Rebates under *Inflation Reduction Act*
- **Section 50121: Home Efficiency Rebates (HOMES)**-- \$4.3 billion for single-family and multifamily discounts on efficiency upgrades
- **Section 50122: Home Electrification and Appliance Rebates (HEAR)**-- \$4.5 billion for single-family and multifamily discounts on high-efficiency home appliances and equipment



DOE estimates federal rebates will support **more than 50,000 jobs** and **save Americans \$1 billion every year** across the nation.



# TECH Single Family HVAC

Program Design Category	2024
Total Statewide Budget	\$22M
Incentive Structure	Flat
Incentive Level	\$1,000/\$1,500 HP rebate only
Eligible Customers	<u>All customers in California</u>
Eligible Equipment	EnergyStar Listed/2-speed or variable speed No hybrid systems
Project Limitations	Up to 2 incentives per household
Furnace Backup	Accepted, must be part of AHRI matched system
Replacements Types Required	Must be replacing an existing non-heat pump heating system

*TECH incentives can be **stacked** with other local, State and Federal incentives*

# HEEHRA Phase I: Program Overview HEEHRA TECH Clean California



**Efficient Electric  
Equipment**



**HEEHRA-TECH  
Clean California  
Contractors**



**Statewide**

# HEEHRA Phase I: Rebate Table

Single Family – Low-to-moderate income	Rebate Amount
Low-Income: Heat Pump for Space Heating or Cooling (Heat Pump HVAC) (<80% Area Median Income, AMI)	\$8,000
Moderate-Income: Heat Pump for Space Heating or Cooling (Heat Pump HVAC) (80%-150% AMI)	\$4,000
Multifamily – Low-to-moderate income, max rebate per residential unit of \$14,000	Rebate Amount
Heat Pump for Space Heating or Cooling – Dual Speed (Heat Pump HVAC)	\$7,500
Heat Pump for Space Heating or Cooling – Variable Speed (Heat Pump HVAC)	\$8,000
Heat Pump Water Heater (Electric to Electric Heat Pump, cannot replace existing Heat Pump)	\$700
Heat Pump Water Heater (In-Unit)	\$1,750
Central Heat Pump Water Heater	\$1,750
Electric Load Service Center (Electric Panel)	\$4,000
Electric Wiring	\$2,500
Electric Stove, Cooktop, Range, or Oven	\$840
Heat Pump Clothes Dryer	\$840

\*Program and equipment eligibility requirements apply

\*\*Rebate incentive may be adjusted

# TECH Single Family HPWH

Program Design Category	2024
Total Statewide Budget	\$11M
Incentive Structure	Flat
Incentive Level	\$1,100 HPWH rebate \$700 > 55 gallon capacity \$1,500 Low-GWP Kicker \$2,000 Electrical upgrade
Eligible Customers	<u>All customers in California</u>
Eligible Equipment	JA13 compliant with NEEA QPL with EcoPort or EnergyStar Residential 4.0 Connected Product
Customer Requirements	Must enroll on a TOU rate and demand response program and water heater rewards where available.

*TECH incentives can be **stacked** with other local, State and Federal incentives*

# Incentive Process

**Step 1:** Enroll and complete onboarding

**Step 2:** Make heat pump sale and submit incentive reservation to hold incentive money

**Step 3:** Complete installation and any required HERs testing, making sure to note information required on claim.

**Step 4:** Submit application!

**Step 5:** Receive incentive payment!

# Sign Up Process and Resources

## Ready to Sign Up?

- Navigate to <https://switchison.cleanenergyconnection.org/form/enrollment-form>
- Enrollment requirements include:
  1. Active California contractor license in good standing
  2. Adherence to the requirements outlined in the [Trade Professional Participation Agreement](#) including insurance coverage
  3. Brief program training completion



## Resources

- Program Resources: <https://switchison.org/contractors/tech-clean-california/>
- Multifamily Resources: <https://techcleanca.com/incentives/multifamily-information/>
- Public Reporting Website: <https://techcleanca.com>

# Expanded TECH Clean California Training

**Goal: Reduce the economic burden for taking time off work for training**

**Goal: Give contractors the technical support they need, when they need it**

- Stipends available to contractors enrolled in TECH Clean California
- On-demand phone support through National Comfort Institute for 100 TECH Clean California contractors

[switchison.org/contractors/training-hub/](https://switchison.org/contractors/training-hub/)



TECH Clean California  
Electrify My Home Training

# Thank You

*For more information or to get involved,  
contact:*

[TECH.info@energy-solution.com](mailto:TECH.info@energy-solution.com)

[TECH.Contractor@energy-solution.com](mailto:TECH.Contractor@energy-solution.com)



Tre'Laine



[www.techcleanca.com](http://www.techcleanca.com)  
[www.switchison.org](http://www.switchison.org)



**Q&A**

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# Regulatory and Policy Updates

## Q1 2025 Regulatory Priorities

Courtney Owen, ICF on behalf of SoCalIREN



# Q1 2025 Regulatory Priorities

- 1) Executive Order N-5-24
- 2) R.18-04-019 Climate Change Adaptation Proceeding
- 3) CA Proposition 4 (\$10B Climate Change Bond)

# Executive Order N-5-24

Signed by Governor Newsom on October 30, 2024. CPUC is requested to report its analysis of programs and recommendations by Wednesday, January 1, 2025 ahead of the legislative session beginning Monday, January 6.

Purpose	Actions	Potential Impacts and Risks
<ul style="list-style-type: none"><li>Address rising electricity costs and provide electric bill relief</li></ul>	<ul style="list-style-type: none"><li>Identify underperforming programs and return unused funds to customers</li></ul>	<ul style="list-style-type: none"><li>Potential reduction in funding for energy and climate initiatives</li></ul>
<ul style="list-style-type: none"><li>Aimed at making electricity more affordable while maintaining clean energy goals</li></ul>	<ul style="list-style-type: none"><li>Maximize the California Climate Credit to deliver enhanced direct financial relief to ratepayers</li></ul>	<ul style="list-style-type: none"><li>Increased pressure on local governments to maintain and implement climate programs with limited resources</li></ul>
	<ul style="list-style-type: none"><li>Evaluate utility wildfire mitigation expenses for potential savings</li></ul>	<ul style="list-style-type: none"><li>Potential delays or scaling back of local climate adaptation and resilience projects</li></ul>
	<ul style="list-style-type: none"><li>Pursue federal funding to lower electricity costs</li></ul>	

# R.18-04-019 Climate Change Adaptation Proceeding

**Objective:** Integrate climate change adaptation into relevant CPUC proceedings to ensure the safety and reliability of utility services in the face of climate impacts. Phase 1 focuses on electric and natural gas utilities.

- Defines climate change adaptation for energy utilities and identifies the California Fourth Climate Assessment as the primary source for climate data and projections.
- Establishes criteria for additional data or models to understand climate impacts:
  - Rising sea levels threatening power plants and substations
  - Increased temperatures causing strain on transformers
  - Higher electric demand during heat waves
- Ensures that California's utility infrastructure is resilient and can adapt to the changing climate.
- Promotes strategic, data-driven, community-informed planning to maintain safe, reliable, and affordable utility services.

# CA Proposition 4 (\$10B Climate Change Bond)

- On November 5, California voters approved a bond to fund significant climate resilience, conservation, air quality, and environmental protection efforts.
- The \$10 billion climate bond funds will be available to local governments, Native American Tribes, non-profits, and businesses through loans and grants starting in 2025, with communities potentially seeing impacts by mid-2025.

<b>\$3.8 Billion</b>	<b>\$1.5 Billion</b>	<b>\$1.2 Billion</b>	<b>\$3.5 Billion</b>
<b>Safe drinking water and drought/flood protection</b>	<b>Wildfire prevention</b>	<b>Coastline protection and land conservation</b>	<b>Energy infrastructure, parks, extreme heat mitigation, and agriculture</b>

# City of Palmdale Energy Programs Update

Benjamin Lucha, City of Palmdale





# City of Palmdale

Energy Programs Update





# Solar + Storage Project

- Project at local park
  - Connected to meter to pool
  - 79 kW solar
  - 3-hr Battery Back-Up (load shedding)
  - Anticipated savings of \$1.3M for 30-year life of project (solar and battery only)
  - 12 Level 2 EV charging units



# ESCO Project

- Currently wrapping phase 2 of ESCO energy efficiency projects.
  - Interior and Exterior Lighting
  - LS-3 Custom Retrofits
  - Sports Field Lighting Retrofit
  - HVAC Replacements
  - EMS Replacements/Upgrade
  - Irrigation Control Upgrades



# Maintenance Microgrid/ZEV Fleet Study

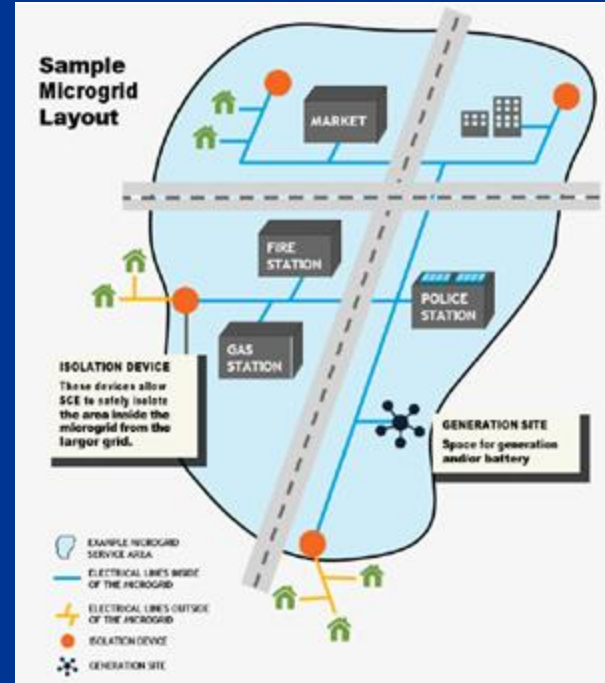
Categories <sup>5</sup>	COA #1: Utility Only	COA #2: Optimized with Solar and BESS	COA #3: Fully Resilient
Diagram			
Equipment	4MW utility upgrade	4MW utility upgrade; 0.8MW Solar PV; 1MW, 4MWh BESS	4MW utility upgrade; 0.8MW Solar PV; 1MW, 4MWh BESS, 4MW Generation
Renewable Contribution <sup>6</sup>	0%	70%	70% <sup>7</sup>
Resilience	0%	Variable <sup>8</sup>	100%

No.	Infrastructure	CapEx	Resilience	Clean Energy Contribution	DER Cost Savings
1	Utility Only	●	●	●	●
2	Utility + Solar + Battery and Energy Storage Systems (BESS) [Optimized Microgrid]	●	●	●	●
3	Utility + Solar + BESS + Generator [Fully redundant Microgrid]	●	●	●	●

Figure 9: Microgrid COA Summary

# Civic Center Microgrid

- Currently working on a potential microgrid project.
- Would cover:
  - City Hall
  - Majority of City Administrative Staff
  - EOC
  - One Fire Station
  - Library/City Cooling Center



# Public EV Charging Stations Program

	<b>Stations</b>	<b>Ports</b>
Dev Svcs	1 - Lvl 2 1 - Lvl 3	4
PTC	6 - Lvl 2	12
Oasis Park	2 - Lvl 2	4
Ave S P&R	4 - Lvl 3	4
RVP	1 - Lvl 2	1

<b>Coming Soon</b>	<b>Stations</b>	<b>Ports</b>
McAdam Park	6 - Lvl 2	12
Ave S P&R	1 - Lvl 3	1
Library	2 - Lvl 2 1 - Lvl 3	6
Domenic Massari Park	6 - Lvl 2 1 - Lvl 3	12
Poncitan Square	4 - Lvl 2 2 - Lvl 3	12

Lvl 2: 2-4+ hrs | Lvl 3: <1hr

*In Q3, current stations were used for 9,418 charging sessions and used 179.9 MWh of electricity.*

# EPIC Power Choice Program

**POWER CHOICE**  A Program by Energy for  
Palmdale's Independent Choice



TESLA



 participate.  
energy

# Your Ride is EPIC

- \$250 for Residential EV Charger
- \$550 for Wall Mounted/Level 2 Residential EV Charger



# Planned Building Electrification Program




**Purchase of Electric Ranges  
for Four Neighborhood Homes**



**Electric Range Demonstrations**

Home Electrification  
Organics Program  
Food Rescue  
Digital Equity

**Find and Compare**

 **Change Product**

ENERGY STAR Certified

**Electric Cooking Products**

Visit the [Residential Electric Cooking Products](#) page for usage tips and buying guidelines.





# Thank You

Innovation & Environmental Division/Energy for Palmdale's Independent Choice (EPIC)

661/267-5300

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Benjamin Lucha

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# Closing Remarks

Lujuana Medina, County of Los Angeles



# Quarterly Regulatory Report

SoCalREN	
Regulatory Report and Proceeding Update – Aug 23, 2024	
<p><b>R.13-11-005</b> Energy Efficiency (EE) Rolling Portfolio (Actively Participating)</p>	<p><b>Why it matters:</b> This proceeding determines how California Public Utilities Commission funds are spent to meet California's energy efficiency goals. This includes how REEs are funded and evaluated.</p>
<ul style="list-style-type: none"> <li><b>August 19, 2024:</b> SDG&amp;E Advice Letter 4404-E/0332-G seeking to transition its statewide programs to other IOUs.               <ul style="list-style-type: none"> <li>Transition of HVAC and Plug Load &amp; Appliances to PG&amp;E and SCE will not impact customers or budgets but demonstrates SDG&amp;E interest in winding down its EE.</li> </ul> </li> <li><b>August 7, 2024:</b> <a href="#">D.24-05-003</a> Authorizing San Diego Regional Energy Network (SOREN). Budget of \$124M through 2027.</li> <li><b>May 7, 2024:</b> Southern California PAs submit Joint Cooperation Memo (JCM).</li> <li><b>March 15, 2024:</b> Portfolio Administrators submit Tier 3 advice letters seeking approval of Integrated Demand Side Management (iDSM) frameworks and programs.</li> <li><b>March 6, 2024:</b> Public Advocates Office (PAO) submits Petition to open a Rulemaking to combine the EE, demand response and Energy Savings Assistance (ESA) programs and seeking other policy changes (currently not a docketed document).</li> <li><b>January 18, 2024:</b> BayREN and 3C-REN submits a <a href="#">Motion</a> requesting adoption of streamlined processes for multifamily projects.               <ul style="list-style-type: none"> <li>Seeks reforms to the onerous Custom Project Review (CPR) ex ante process to enable increased EE projects in the multifamily residential sector.</li> <li>SoCalREN filed generally supportive <a href="#">comments</a> on February 2, 2024.</li> </ul> </li> <li><b>January 5, 2024:</b> San Diego Community Power submits a <a href="#">Motion</a> on behalf of SOREN for approval of SOREN.               <ul style="list-style-type: none"> <li>Motion requests approval of new REN \$124 million EE portfolio for 2024-2027.</li> </ul> </li> </ul>	<p><b>Impact:</b> RENs and CCAs.</p> <p><b>Status:</b></p> <ul style="list-style-type: none"> <li>SoCalREN is a party to the proceeding.</li> </ul> <p><b>Recent and Upcoming Deliverables:</b></p> <ul style="list-style-type: none"> <li>Monitor proposed decisions, rulings, scoping memos, and comments.</li> </ul>



**We want to hear your feedback!**  
**Please take a minute to**  
**complete our**  
**December 2024 Meeting Survey!**

# 2025 Meeting Proposed Schedule

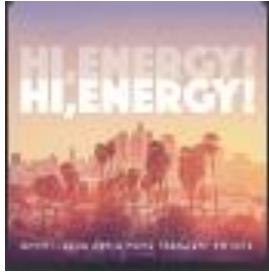


Date	Time
<p><b>Q1 - March Options</b></p> <p>Thursday, March 6th Wednesday, March 19th Thursday, March 20th Tuesday, March 25th Wednesday, March 26th</p>	<p>In-person - Orange County (TBC) 10:30 am - 2:30 pm</p>
<p><b>Q2 - June 11th</b></p>	<p>Virtual 10:30 am - 12 pm</p>
<p><b>Q3 - September 10th</b></p>	<p>In-person or virtual 10:30 am - 2:30 pm</p>
<p><b>Q4 - December 3rd</b></p>	<p>Virtual 10:30 am - 12 pm</p>

# SoCalREN Podcast & Social



Don't forget to listen to SoCalREN's podcast and follow us on social media!



- SoCalREN's twenty-first podcast episode, The Urban Heat Island Effect, was recently released and ReEnergizing Communities has been rebranded into *Hi, Energy!*
- Currently available on [Spotify](#) and [Apple Podcasts](#) platforms.

[@SoCalREN](#)

[linkedin.com/compa  
ny/southern-  
california-regional-  
energy-network](https://www.linkedin.com/company/southern-california-regional-energy-network)

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# Online Resource for Advisory Committee Members



## Advisory Committee



### Working Group Updates

As needed documents such as operating structure, meeting minutes and opportunity trackers.

[More Info](#)



### Regulatory Reports

Monthly regulatory reports and proceeding updates.

[More Info](#)



### Advisory Committee Meeting Materials

Quarterly meeting materials such as agendas, minutes, presentations and other supporting documents.

[More Info](#)

# Adjourn

