

SoCalREN Advisory Committee Meeting

March 20, 2024 10:30 pm - 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 *Presley Aviles at paviles@energycoalition.org*



Directions for Chat

- We will be having an open discussion throughout the meeting!
- To facilitate orderly discussion while others are speaking, we are going to be using the "raise hand" function.
- If you would like to ask your question verbally click on the "raise hand" function so we can unmute you.
- If you would not like to be unmuted, send us your question or comment through the chat!





Who is participating today?

Invited Guests



Advisory Committee Members



SoCalREN Advisory Committee



Guide and Advise



Collaborate and Innovate



Be Informed



Be an Advocate



Agenda

SoCaIREN Welcome	Minh Le	10 min
Networking		10 min
Regulatory Updates	Jesse Feinberg	15 min
Facility Equipment Inventory Spotlight	Talia Perluss	15 min
CCA Community Programs Panel	Nataly Morales, Joanna O'Neill, Kathy Wells, Alelia Parenteau	35 min
Closing Remarks	Lujuana Medina	5 min





SoCalREN Welcome

Minh Le, Los Angeles County



Networking

Breakout Rooms Quick Connect



- What activities are you looking forward to with the warmer weather?
- What major goals does your organization have for this year?





Regulatory Updates Jesse Feinberg and Patrick Ngo

Discussion Topics

- 1) Transportation Electrification (R.23-12-008)
- 2) Energization Timelines (R.24-01-018)
- 3) Integrated Demand Side Management (A.22-02-005)

Transportation Electrification (TE) Proceeding

- In January, the CPUC closed the TE proceeding launched in 2018 and opened a new proceeding to address a new set of issues
- A forthcoming Scoping Memo will finalize the issues and timeline

Previous Scoping Issues (R.18-12-006)	How CPUC addressed issue in 2022 Decision
Funding for behind-the-meter charging infrastructure	• Established up to \$1B for a light-, medium-, heavy-duty EV charging infrastructure program starting in 2025
 Lack of limits to IOU behind-the-meter spending on TE programs 	 Established funding cycle approach to IOU TE spending
 Lack of clarity on the IOU role in TE 	IOUs supporting TE market by acting as utility-side-of-the-meter infrastructure and fuel providers

Transportation Electrification Proceeding *continued*

Pr	oposed Scoping Issue	Fundamental Question
1)	Locational Considerations	What info does the CPUC need to prepare the grid to accelerate TE?
2)	Data Needs and Planning	What data inputs are needed need to quantify future TE load?
3)	Electrical Corporation Constraints	 How should the CPUC direct IOUs to assess cost, timing, and regional constraints to support planning?
4)	Informing Grid Planning Processes	 How should this data inform existing grid planning processes?

Other issues that should be included:

- 1) Prioritize affordability of grid investments and charging
- 2) Customer experience with public charging networks

Energization Timelines

• What is energization?

- Interconnection: Process to connect new generation facilities to distribution system
- Service Energization: Process to connect new load to the distribution system
- Significant concerns about energization delays across all of California's major economic sectors.
- Will implement requirements of from two recent laws:
 - **SB 410:** Promote timely energization of customer connections in California
 - **AB 50:** CPUC to set criteria for timely energization for electric customers



Energization Timelines continued

• Proposed scope:

- Establish average and maximum target time periods
- Procedures for customers to report delays
- Criteria for timely service, and reporting

• Other issues that should be included:

- Customer perspective must be central
- Explore *root cause of delays and develop actionable solutions*



Integrated Demand Side Management (IDSM)

• What is IDSM?

- Since 2012, the CPUC has permitted demand-side management measures to be incorporated alongside energy efficiency (EE).
- Often via smart thermostats with an EE and demand response (DR) component
- But innovation and holistic approaches have been limited due to strict CPUC rules on funding and permissible activities
- 2023 EE Decision permits more flexibility to use EE funding to support DERs for load shifting and reduction



Integrated Demand Side Management (IDSM)

SoCalREN proposes to provide DER audits and technical assistance through its existing EE programs.

DER Examples:

- Solar
- Battery storage
- Combined heat and power units
- Wind generation
- Etc.



Facility Equipment Inventory Spotlight

Talia Perluss, SBCCOG

South Bay Cities Council of Governments

Facility Equipment Inventory

March 20, 2024





Process

The project consists of cataloging all equipment that uses energy: lighting, HVAC, water systems, office equipment, etc. The information is compiled into a workbook and provided to city staff to assist in understanding the energy equipment currently operating in their municipal facilities. The SBCCOG & SoCalREN also use the information to guide agencies in implementing efficient equipment strategies that will **reduce energy use and utility cost**, as well as **enhance comfort in their facilities**.

















Sample Workbook (Lighting)

				#	Fixture	Bulb	Lamp/Tube
Dep.	Area Description	Fixture Type	Lamp Type	Lamps/Fixture	Quantity	Quantity	Manufacturer
Floor 1	CourtYard	Flush Mount	N/A	2	6	12	N/A
CourtYard	Stair Case 1	Pendant	LED	3	6	18	Sylvania
Basement	Exterior Hallway	2X4 Wrapped	LED	4	1	4	Phillips
Public Works	Open Office	2X2 Troffer	Fluorescent	2	5	10	Phillips
Public Works	Open Office	2X2 Troffer	Fluorescent	2	5	10	Sylvania
Public Works	Open Office	2X4 Troffer	LED	4	18	72	Phillips
Public Works	Conference	Recessed	N/A	1	8	8	N/A
Public Works	Private Office				5. 51 51 10 10		19. 08. 27. 19.
Public Works	File Room	1X4 Wrapped	LED	2	2	4	Phillips
Public Works	Cubicles	1X2 Strips	Fluorescent	1	15	15	Sylvania
Basement	Hallway 2	2X4 Wrapped	LED	2	8	16	Phillips
Basement	Data I.T.	2X4 Troffer	LED	2	2	4	Phillips
Basement	ata Storage Clos	1X4 Strip	LED	2	1	2	Phillips
Basement	Storage 2	1X4 Troffer	LED	2	4	8	Phillips
Basement	Mechanical Room	Screw in	N/A	1	1	1	N/A
Basement	Mechanical Room	1X4 Troffer	LED	2	1	2	Phillips
Basement	Elevator	1X4 Strip	Fluorescent	1	2	2	Philips
Basement	Lunch Room	2X2 Troffer	Fluorescent	2	1	2	Phillips
Basement	Lunch Room	2X4 Troffer	LED	2	6	12	Phillips
Basement	Internet Room	2X4 Troffer	LED	4	1	4	Phillips
Stairwell	StairCase 2	Screw in	LED	1	1	1	N/A
Stairwell	StairCase 2	Flush Mount	N/A	1	1	1	N/A
Exterior	West Side	Flood	LED	1	2	2	N/A



Sample Workbook (Lighting)

Lamp/Tube Model #	Watt/Fixtur e	kW	Hours of Operation per Year	kWh	Proposed Lamp Type	Proposed Watt/Fixture	Proposed kW	Proposed kWh	Motion Sensor	Daylight Control
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	Yes
72557	36	0.216	2200	475.2	LED	36.00	0.22	475.20	No	No
929001124104	48	0.048	2200	105.6	LED	48.00	0.05	105.60	No	No
927850083503	34	0.17	2200	374	LED T8-7w	14.00	0.07	154.00	Yes	No
46135221354	34	0.17	2200	374	LED T8-7w	14.00	0.07	154.00	Yes	No
929001124104	48	0.864	2200	1900.8	LED	48.00	0.86	1900.80	Yes	No
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	No
ALC: NOTE: NOTE: N	No	Access			1000					
929001124104	24	0.048	2200	105.6	LED	24.00	0.05	105.60	No	No
046135213687	13	0.195	2200	429	LED T5-7w	7.00	0.11	231.00	No	No
929001124104	24	0.192	2200	422.4	LED	24.00	0.19	422.40	No	No
929001124104	24	0.048	2200	105.6	LED	24.00	0.05	105.60	No	No
929001124104	24	0.024	2200	52.8	LED	24.00	0.02	52.80	No	No
929001124104	24	0.096	2200	211.2	LED	24.00	0.10	211.20	No	No
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No
929001124104	24	0.024	2200	52.8	LED	24.00	0.02	52.80	No	No
244707	34	0.068	2200	149.6	LED T12-16w	16.00	0.03	70.40	No	No
927850083503	34	0.034	2200	74.8	LED T8-7w	14.00	0.01	30.80	Yes	No
929001124104	24	0.144	2200	316.8	LED	24.00	0.14	316.80	Yes	No
929001124104	48	0.048	2200	105.6	LED	48.00	0.05	105.60	No	No
N/A	N/A	N/A	N/A	N/A	LED	N/A	N/A	N/A	No	No
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	Yes
LFLC-30W-CW	30	0.06	2200	132	LED	30.00	0.06	132.00	No	Yes



Sample Workbook (HVAC)

					Manufacture		
HVAC Type	Manufacturer	Model #	Serial #	Size	Date	Refrigerant	Replacement Timeline
Fan Motor	N/A	2D065	N/A	N/A	N/A	N/A	N/A
AC1	Day & Night	N/A	N/A	N/A	N/A	N/A	N/A
High Efficiency Heat Pump - AC	Carrier	50HJQ006501	3495G20215	tons, 13.0 SEE	1995	R-22	Now
Heat Pump - AC	Carrier	38QR036C500	N/A	N/A	1995	R-22	Now
Heat Pump	Carrier	38AQS012500	3895F69523	EER, 108,000	1995	R-22	Now
High Efficiency Heat Pump - AC	Carrier	50HJQ006501	349G20201	SEER, 58,000	1995	R-22	Now
High Efficiency Heat Pump - AC	Carrier	50HJQ006501	3495G20205	tons, 13.0 SEE	1995	R-22	Now
Heat Pump - Indoor	Carrier	0RMQ012B500H	4595F77874	10 tons, 35 kW	1995	R-22	Now
Air Handler - Indoor	Carrier	FX4DNF037	0314A86327	ton, 36,000 B1	2014	Puron	In the next 10+ Years
Gas Packaged Rooftop Unit	Carrier	CM004A2C6B0A5	2120C85777	ton, 17.1 SEE	2020	R-410a	In the next 10+ Years
Gas Packaged Rooftop Unit	Carrier	CM004A2C6B0A5	2120C85776	ton, 17.1 SEE	2020	R-410a	In the next 10+ Years
Gas Packaged Rooftop Unit	Carrier	CM004A2C6B0A5	2120C85775	ton, 17.1 SEE	2020	R-410a	In the next 10+ Years
AC and Gas Furnace Packaged Unit	Carrier	48VLNA6009050	0214C43449	5 tons, 12 EEF	2014	R-410a	In the next 10+ Years
Single Phase Induction Pump Motor	de Electric Cor	NT1J-18-56CB	2019064361	N/A	N/A	N/A	N/A

HVAC Equipment Replacement Roadmap

HV	AC Equipment Replacement Roadmap				
Facility	Next 5 Years	Next 10 Years	10+ Years		
	1 Carrier Heat Pump (6 tons)	1 Trane Packaged Air Conditioner (7.5 tons)	2 Mitsubishi Split System Heat Pumps		
City Hall		1 Carrier Rooftop Unit (5 tons)	1 Carrier Rooftop AC Unit (7.5 tons)		
			1 Carrier Rooftop Unit (5 tons)		
	2 Carrier Heat Pumps (15 tons)				
Community Center					
	1 Bryant Heat Pump (10 tons)				
	4 Perfect Aire Window AC	1 Perfect Aire Window AC			
City Yard		1 General Electric Through-the-wall AC unit			



Lighting Findings

Our 43 inventories and subsequent recommendations identified:

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Annual Savings

- 897,000+ kWh saved annually
- Savings would are 9.5% of the SoCalREN's 2022 kWh savings goal



GHG Equivalency

- 677 Tons of CO2 GHG equivalency
- 1.6 million miles driven every year.



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Upfront Costs

- \$259,744 Upfront cost for LED replacements
- Does not include fixtures and installation costs

Annual Savings

- \$296,040.64 Annual savings
- Yielding a 0.88 year payback period for the South Bay region



HVAC Findings

HVAC Unit Replacement Timeline across all facilities (# of units):



Manufacture date was identified using the serial numbers. Replacement timelines were developed using industry standard "End of Useful Life". HVAC units typically last for 15 years



Implementation Next Steps



Incorporation of Facility Equipment Inventory workbooks and finding into SoCalREN Energy Analysis Services (CEA)



LA County to help actively identify funding opportunities such as Metered Savings Program



CCA Community Programs Panel

Joanne O'Neill, Director, Customer Programs at CPA Kathy Wells, Energy Programs Manager at CalChoice Nataly Morales, Energy Programs Analyst at OCPA Alelia Parenteau, Sustainability & Resilience Director at Santa Barbara Clean Energy



March 20, 2024

Customer Programs



Agenda

- Clean Power Alliance
- Local Programs for a Clean Energy Future
- Frograms Overview
- Questions

About Clean Power Alliance

- CPA serves approximately 1 million customer accounts, representing over 3 million customers and businesses
- 35 member jurisdictions in Los Angeles & Ventura counties
- Largest CCA in CA; more customers on 100% renewable energy rates than any utility in the nation
- Revenues, after costs for power and operations plus financial reserve contribution, are pooled and invested into local programs and procurement



Local Programs for a Clean Energy Future

Adopted in 2020, the Plan sets a 5-year vision for programs, focused on 3 pillars:





Cross Cutting Program

Implementatio n Phase	Program	Target Audience	Timeline
New Program	Energized Communities Fleet and building electrification	g electrification	Begin recruitment Q1 2024
	Energized Communities Innovation Grants	Member agencies	Issue first funding opportunity Q3 2024



Resilience & Grid Management

Implementatio n Phase	Program	Target Audience	Timeline
Program Continuation / Expansions	Power Ready No cost clean energy back-up systems for critical facilities Expanding in cohort 2 in late 2024 to include other community buildings	Local government and community buildings 11 municipal sites (in process for cohort 1)	On-going
	Power Response Automated and behavioral demand response program	Residential, commercial, and public 3,260 participants & 2.38 MW enrolled	On-going





Electrification

Implementatio n Phase	Program	Target Audience	Timeline
Program Continuations / Expansions	EV Charger Rebates – CALeVIP (applications close 7/31/23) Incentives for EV charging infrastructure	Multifamily, commercial, and public 60 connectors complete / 653 reserved	On-going
	Reach Code Program for Building and Transportation Electrification Technical and stakeholder engagement support	Member agencies 2 Existing buildings 2 New construction	On-going
	Workforce training & development Training, equipment & scholarships	CPA territory residents 130 students to-date	On-going
New Programs	Energy Advisor	Residential and small commercial	RFP in process 2024
	EV charging infrastructure technical assistance & incentives	Multifamily and small to medium businesses in DACs	RFP anticipated in late 2024


Local Procurement

Implementatio n Phase	Program	Target Audience	Timeline
Program Continuations / Expansions	Power Share (DAC-GT) 20% bill discounts for 100% clean & local solar in DACs	Residential On-going 10 projects contracted 6,270 customers	
	Community Solar (CSGT) 20% bill discounts for 100% clean & local solar	Residential On-going <i>4 projects contracted</i>	
New Program	Sun Storage Rebates \$750 per customer, additional \$250 for CARE/FERA/Medical Baseline	ResidentialLaunched March Must be paired with new or 202- existing solar	4
	Low and Moderate Income Solar + Storage	Residential	RFP in mid 2024
	Pursue partnership to deliver virtual power plant (VPP)	Residential	Prepare RFO in late 2024



Energy Program Highlights

SOCAL REN ADVISORY COMMITTEE MEETING

MARCH 20, 2024



Hybrid JPA Model for Municipal CCAs



Power Choice Program

Solar+Battery program option for CalChoice CCA *residential* customers with a new and unique structure

- \$0 upfront costs to homeowners
- Long-term customer pricing stability
- Available to all customers--no credit check
- No operational and maintenance costs to homeowners
- 100% renewable energy and emergency backup power





Power Choice Expansion Programs

- Power Choice+
- Power Choice Battery
- Power Choice Renters
- Power Choice Homebuilders







Energy Efficiency "Elect to Administer"

May 15, 2023 – CalChoice filed Petition for Modification of D.14-01-033

- Historical average of "local" funds diminishing
- Not enough funds for CCAs to deploy meaningful programs
- Proposed minimum funding for ETA programs

February 29, 2024 – ALJ Fitch issued proposed decision granting the PFM of D.14-01-033

- Establishes a minimum threshold of funds for CCAs to access for program offerings to their customers
- 4% of the applicable IOU portfolio budget dedicated to statewide and regional programs in the most recently authorized program cycle
- The item may be heard at the Commission Business Meeting on April 18, 2024

Year	Percent of total EE funds to be collected by SCE dedicated to statewide and regional programs	Percent of total EE funds to be collected by SCE dedicated to neither statewide nor regional
2012	96.68%	3.32%
2013	95.85%	4.15%
2014	96.61%	3.39%
2015	96.75%	3.25%
2016	96.41%	3.59%
2017	95.62%	4.38%
2018	93.21%	6.79%
2019	92.01%	7.99%
2020	98.28%	1.72%
2021	98.31%	1.69%
2022	99.91%	0.09%
2023	99.98%	0.02%



ORANGE COUNTY POWER AUTHORITY

CCA Community Programs Panel Nataly Morales, Energy Programs Analyst



March 20, 2024

Energy Programs

- OhmConnect: Free online platform that helps users save energy and money by reducing their electricity usage during periods of high demand. Customers can earn rewards (gift cards & cash) for reducing energy during peak periods.
- **OCPA Marketplace:** Residential customers are eligible to receive discounts and rebates on energy-efficient products (e.g., smart thermostats, LED bulbs, air purifiers).
- Community Advisory Committee (CAC):
 provides a venue for ongoing
 citizen support and engagement guidance
 in the strategic direction, goals and
 programs of the Orange County Power
 Authority.

Celebrate Earth Month with LED's!

Receive Free Shipping with the purchase of a featured bulb pack!

SHOP NOW





SEE HOW You can Save

Check out the OCPA Marketplace

Smart Thermostats | Air Purifiers | Advanced Power Strips Indoor/Outdoor Lighting & Led Bulbs | Outdoor Lawn Equipment | And Much More!



Scan the QR Code to shop our great selection!





A Heating 68 Vedera 45 Google Nest Thormatat aspartish Thermatat

NewLeaf 15w Soft White PAR3BOutdoor Reflector





() OhmConnect (

Save even more energy & money on your bill



- OhmConnect is a free service to help customers save electricity & money.
- Integration with Rheem[®] EcoNet[®] connected water heaters for improved energy efficiency.

What is OhmConnect?

Sign up for

OhmConnect with

the link from your

contractor

20

- with smart devices.

 During energy-saving events, OhmConnect reduces your water heater energy consumption
- During energy-saving events, OhmConnect reduces your water heater energy consumption by changing its mode & water temperature. Opt out for any event.
- Redeem rewards for participating with cash, gift cards or prizes just for saving!

· Get alerted by OhmConnect when energy prices are spiking, automate savings

How it works



to learn more

Make sure to receive

your sign-up link from

vour contractor!

Link Rheem connected water heater with your Econet* login to OhmConnect, connect your utility

d water Get notified to onet[®] save energy ect, when it's most ity expensive Your appliance will automatically lower its energy use during

this time

Earn cash and gift cards for the energy you save

Scan this QR code

Additional Benefits

- Stop wasting energy when it's most expensive
- Start saving on your electricity bill with ease
- Help us get to more efficient energy
- No action needed on your part for energy saving events, automatic savings
- Take control to reduce energy consumption, without sacrificing comfort



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Reinvesting in the Community

Bright Futures Grant program (\$70,000): Grants are given to non-profits for creative and innovative ideas to educate communities about the benefits of renewable energy.

- Climate Action Campaign
- Cool OC
- Pretend City
- OC Goes Solar
- Low-income customer programs remain available:
 - CARE, FERA, Medical Baseline, etc.
- Future energy programs include the Community Power Plan





Community Power Plan (CPP) Goals & Objectives

Develop a Community Power Plan with innovative programs to invest back into local communities and enhance environmental performance in the Orange County region by helping our communities achieve their climate action goals.

Refine goals into both an overall **community investment strategy and a series of program offerings** OCPA could undertake as it matures as an agency.



CPP - Community Needs Assessment

Conduct a programmatic **community needs assessment** with local Orange County-based community-based organizations ("CBOs") and other key stakeholders.

Needs Assessment would identify the community's energy needs, existing programs to leverage, gaps in existing programs, and methods and strategies OCPA could employ to meet community needs, overcome challenges.



CLEANER COAST BETTER



Santa Barbara Clean Energy

giving you the power to choose!





- Vehicle electrification
- Building electrification
- Bike equity
- Innovation grants
- Resilience programs



Closing Remarks

Lujuana Medina, Los Angeles County Laurel Rothschild, The Energy Coalition

SoCalREN Podcast & Social



Southern California

REGIONAL ENERGY N

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

Reenergizing Communities	f	in		
 SoCalREN's eighteenth episode of <i>ReEnergizing</i> <i>Communities</i> recently released titled The Future of Women in Energy!! Currently available on <u>Spotify</u> and <u>Apple</u> <u>Podcasts</u> platforms 	@SoCalREN	linkedin.com/comp any/southern- california-regional- energy-network	@_SoCalREN	@_SoCaIREN

Online Resource for Advisory Committee Members



Advisory Committee





2024 Meeting Proposed Schedule



Date	Time	
March 20th	Virtual 10:30 am - 12 pm	
August 8th	In-person - Location TBD 10:30 am - 2:30 pm	
September 25th	Virtual 10:30 am - 12 pm	
December 11th	Virtual 10:30 am - 12 pm	

Please take a minute to complete our <u>March 2024</u> <u>Meeting Survey!</u>





Adjourn