



12th Annual CCEC Forum: Webinar 7

August 12, 2021 | 10:00 - 11:15 am

The Future is Local: A Just and Equitable Clean Energy Transformation



LOCAL GOVERNMENT
SUSTAINABLE
ENERGY COALITION

CalChoice

Southern California
REGIONAL ENERGY NETWORK



MCE | My community.
My choice.



the **Energy**
Coalition



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**Better Buildings
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goes solar



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San Diego
Energy District



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SGVCOG
San Gabriel Valley Council of Governments



SJVCEO
Clean Energy Organization



SOMAH

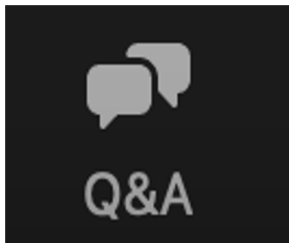


Zoom Features

Q&A

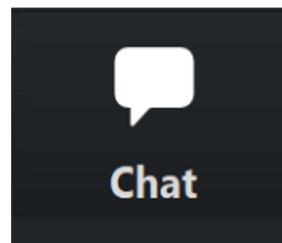
Submit questions for panelists through the Q&A module at any point during the webinar.

Upvote questions that you are interested in.



Chat

Communicate with other participants or reach out to LGC staff if you encounter technical issues.





Meet our Speakers!



Moderator
Laurel Rothschild
*Vice President,
The Energy Coalition*



Alice Havenar-Daughton
*Director of Customer Programs,
MCE Clean Energy*



Lujana Medina
*Environmental Initiatives Manager,
County of Los Angeles, ISD
Environmental & Energy Services*



Kathy Wells
*Energy Program Manager,
California Choice Energy Authority*



Stephen Kullman
*Director of Demand Side Management,
Redwood Coast Energy Authority*



Kate Meis Wright
*Executive Director,
Local Government Commission*

Local Government Sustainable Energy Coalition (LGSEC)

LGSEC has built the blueprint for:

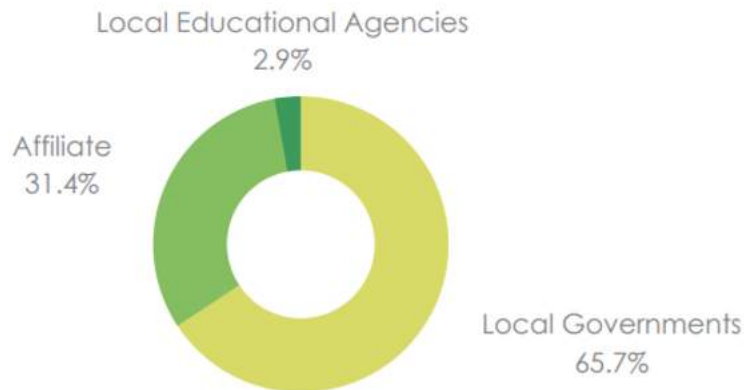
- Local Government Partnerships (LGPs)
- Regional Energy Networks (RENs)
- Community Choice Aggregations (CCAs)

- Established 2007
- 33 Members
- Regulatory Engagement
- Networking Events
- Webinars



**LOCAL GOVERNMENT
SUSTAINABLE
ENERGY COALITION**

Membership Types



Learn More: lgsec.org | Contact Us: lgsec@lgc.org

MCE MISSION

Address climate change by reducing energy-related greenhouse gas emissions

MCE's mission is to address climate change by reducing energy-related greenhouse gas emissions with renewable energy and energy efficiency at cost-competitive rates while offering economic and workforce benefits, and creating more equitable communities.



36 Member Communities

4 Bay Area
Counties

~540,000
Accounts

1 million +
Customers



Growth of Customer Programs

- 2008** MCE launched
- 2010** MCE service launches
- 2012** Service offered to all of Marin County and first energy efficiency program launched
- 2017** CPUC approved \$3.5M for MCE's LIFT program to bring energy efficiency and electrification to affordable multi-family housing
- 2018** CPUC approved for 7-fold increase in MCE's energy efficiency funding and MCE's Board commits \$1.5M annually to EV programs
- 2019** MCE's Board creates a Resiliency Fund initially funded at \$3M (currently funded at over \$10M)
- 2020** MCE Cares Targeted Rate Relief Program (\$10M toward reducing bills for CARE/FERA customers and small/medium businesses)





Energy Efficiency

In 2020:

Worked with over 1,000 multifamily units

Upgrades at over 75 businesses

Delivered 560 energy saving kits and installed over 100 thermostats at no cost

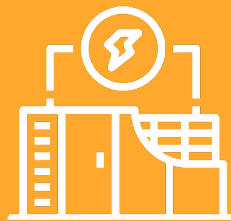


Electric Vehicles

Over 1,100 EV charging ports installed to date (2/3 on Deep Green service)

Helped 150 income qualified customers purchase an EV

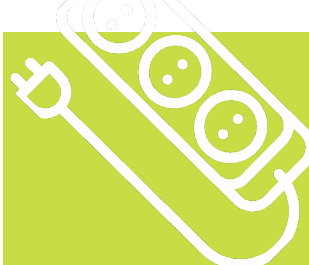
Smart Charging Pilot Program coming in fall 2021



Battery Storage & Resiliency

\$10M allocated to create 15 MWh of dispatchable customer-sited storage

Flex Market Program launched in June 2021 to address grid reliability



Electrification

25+ contractors engaged and 125+ heat pumps installed

Workshops and onsite training for contractors

LIFT program conducted extensive M&V to test performance in affordable multifamily properties



Equity, Health, & Safety

100 portable batteries distributed

\$750,000 in solar rebates

100 homes in Marin upgraded

New partnership with Contra Costa County - Asthma Mitigation Project

Program Impacts



Program Highlight: Strategic Energy Management

Partners have included wineries, wastewater and sanitary districts, schools and colleges

Multi-Color Corporation – used incentives to purchase an air leak detector

St. Mary's College – used incentive to fund a sustainability fellow

Can reduce annual energy usage by up to 15% through the implementation of no-cost and low-cost savings opportunities.

Project Highlight:

LIFT

Holistic project scope designed to increase energy efficiency, lower greenhouse gas emissions, and improve the health and safety of residents onsite

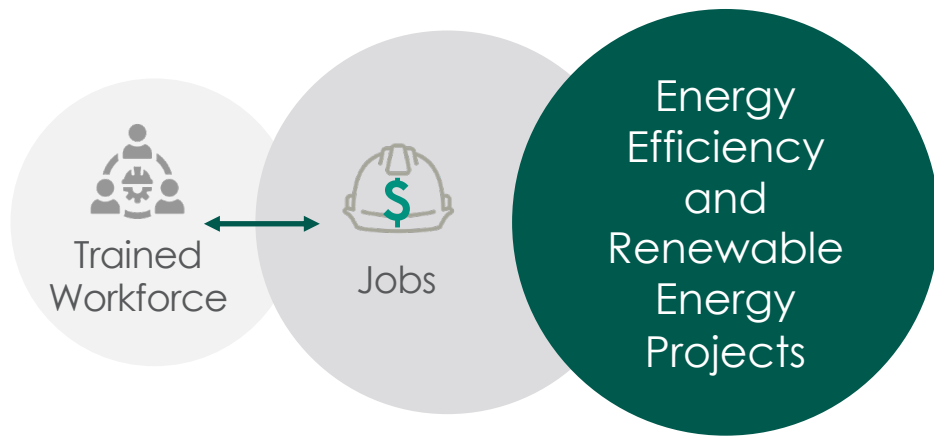
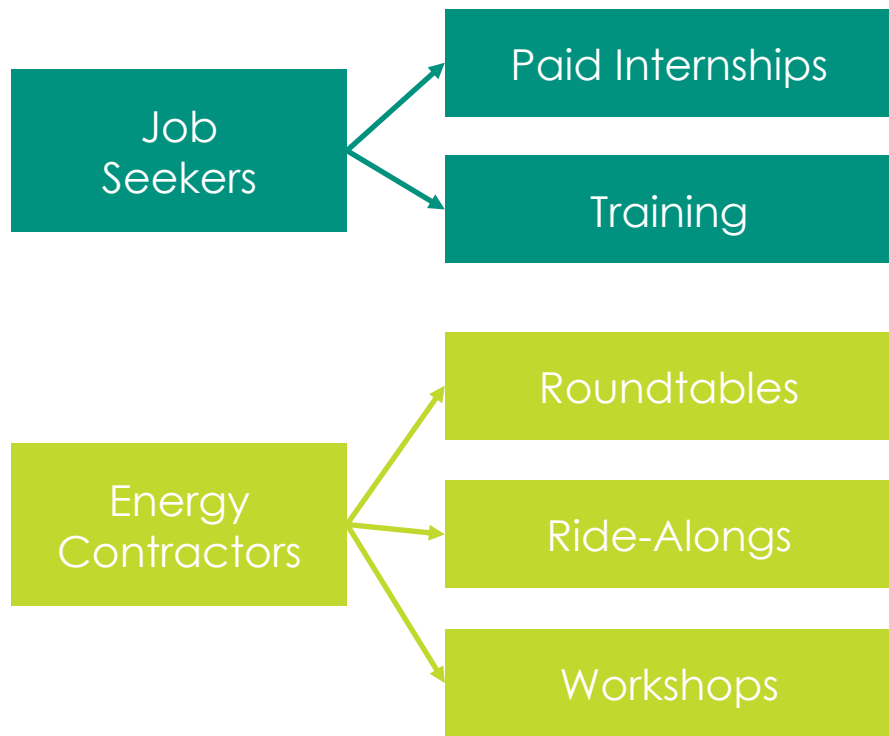
Natural gas to electric heat pump water heater conversion

MCE's first in-field electrification training session, which qualifies contractors to host a MCE-funded intern from a local training program

Greater Richmond Interfaith Project provides emergency shelter and housing for families and focuses on making inroads with individuals who have a history of chronic homelessness.



Workforce Education & Training Program



Workforce Development



Community Investment

- \$45,000

Social Impact

- 330 job hours
- 50% local hire requirement at MCE Solar One



Community Investment

- \$140,000

Social Impact

- 400 multifamily units received upgrades
- 1,369 job hours



Community Investment

- \$275,000 allocated

Social Impact

- 95 job hours
- 31 local on-the-job training hours



Community Investment

- \$535,000 allocated

Social Impact

- 231 free or very low cost solar systems installed



Community Investment

- \$240,000

Social Impact

- 1,798 job hours
- 62 people trained



Community Investment

- \$15,000

Social Impact

- 23 local energy efficiency providers cross-trained to provide comprehensive health & safety services

MCEv Case Study

City of Richmond



Project Scope

- 6 ports installed
- \$15,000 in rebates
- MCEv charging rebates covered 89% of cost

Benefits

- Upgraded discontinued chargers with networked stations
- Doubled charging capacity from single-port to dual-port stations
- City offers up to 4 hours of free charging to staff as employee benefit
- EV chargers with Deep Green 100% renewable electricity

"I have and would encourage others to utilize these MCE programs as they were very instrumental to increase our service deliverables to the public."

Denée Evans, Office of the City Manager, Richmond, CA

Thank You!

mceCleanEnergy.org

info@mceCleanEnergy.org

[@mceCleanEnergy](https://twitter.com/mceCleanEnergy)



Southern California REGIONAL ENERGY NETWORK



The Southern California Regional Energy Network (SoCalREN) was created to harness the collective power of residents, businesses and the public sector to achieve an unprecedented level of energy savings across Southern California.



Public Agencies



Residential



Financing

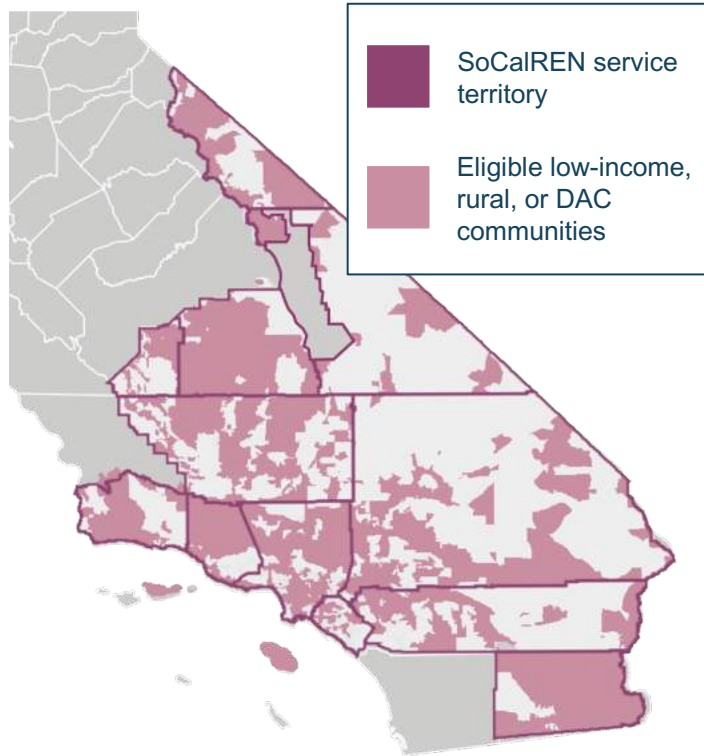


Workforce



The SoCalREN Public Agency Programs are administered by the County of Los Angeles and funded by California utility ratepayers under the auspices of the California Public Utilities Commission. Learn more at socalren.org.

SoCalREN Supports Low-income, Rural, & Disadvantaged Communities



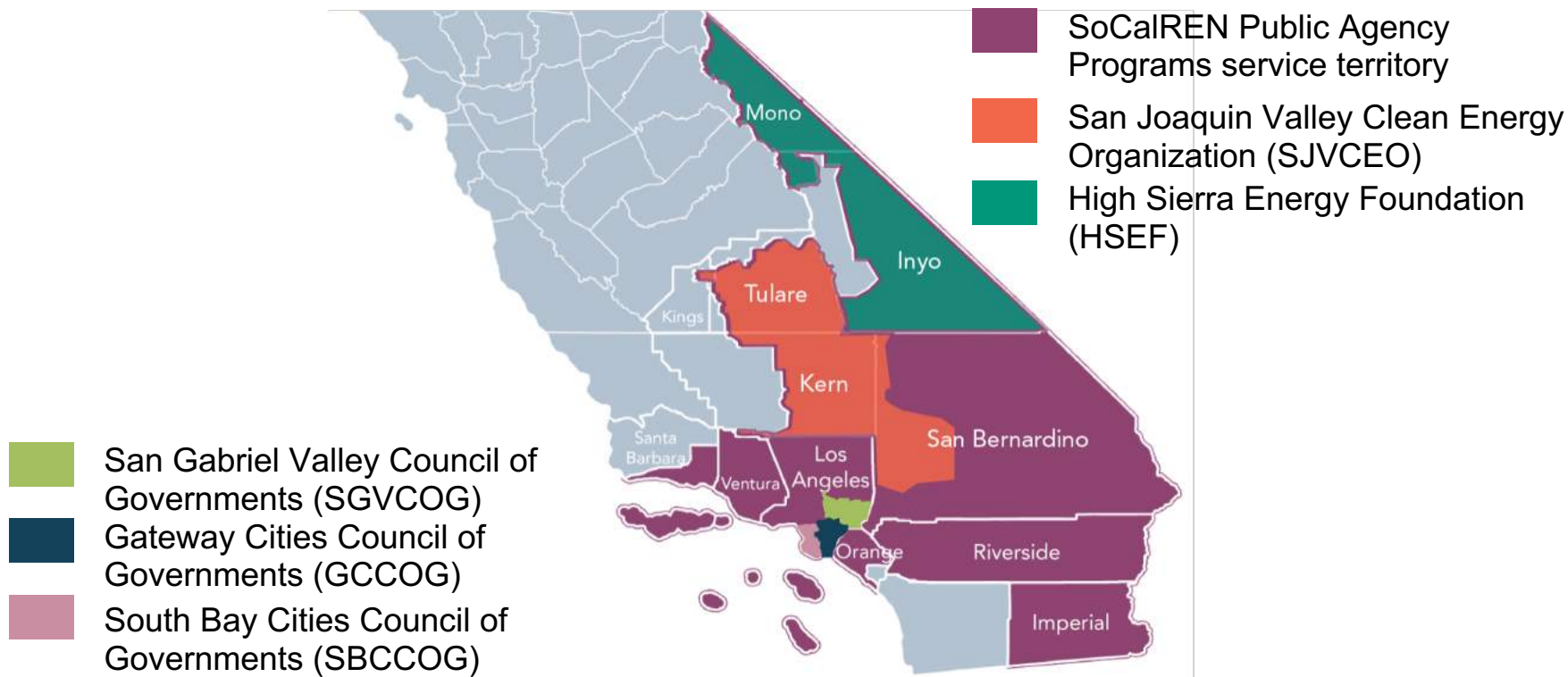
20 million people

12 counties

50,000+ square miles

Over 700 public agencies

Regional Partners



Program Highlight: Pathway to Zero

SoCalREN's Pathway to Zero helps public agencies within low-income, rural, and disadvantaged communities on a path towards zero net energy.

Offered alongside our energy efficiency programs, it maximizes energy efficiency opportunities and drives the integration of Distributed Energy Resources (DERs).



Benefits of Pathway to Zero

- Energy and financial assessments for both energy efficiency and DER options (like solar water heating, demand response, and photovoltaic and battery storage systems)
- Enhanced benchmarking and portfolio analysis
- Objective third-party guidance for project planning and implementation
- Establishes the foundation for Zero Net Energy communities

Expanded Offerings to Meet Local Needs

The Healthy Stores Refrigeration Program helps small businesses in Los Angeles' food deserts replace existing, inefficient refrigerators with new efficient models to fill with California-grown healthy food.

EV Ready Communities provides a holistic approach to regional transportation electrification issues to disadvantaged communities throughout Los Angeles in order to transition to EV-ready communities.

*Left: Program participant, Lupita's Market
Right: LA County Supervisor, Hilda L. Solis*



*Left: Los Angeles
Charging Station*

Thank you!

Lujuana Medina

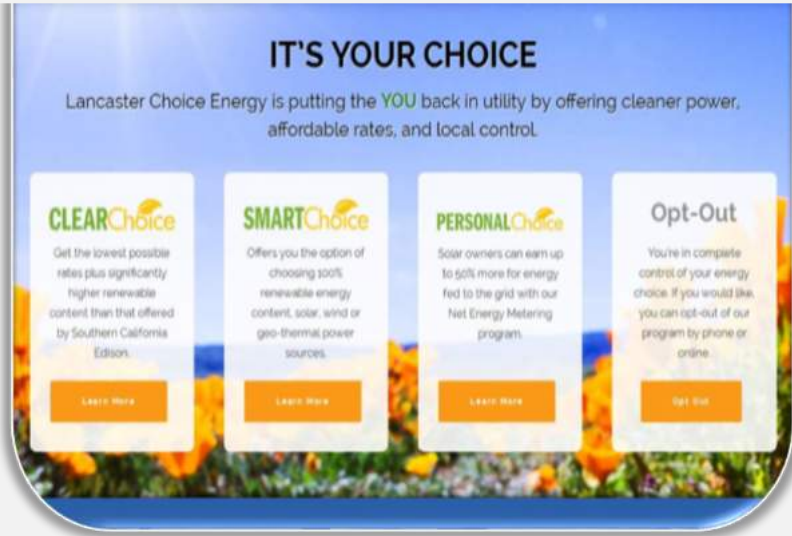
Environmental Initiatives Manager, County of Los Angeles

LMedina@isd.lacounty.gov

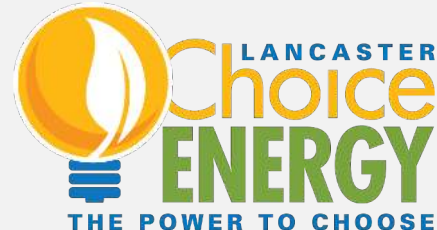
socalren.org | [@_SoCalREN](https://twitter.com/_SoCalREN)



Lancaster Choice Energy



- High Desert Community, north of L.A.
- 1st Standalone City Model
- 1st CCA in Southern California Edison Area
- 3rd Operational CCA in the state
- Launched May 2015
- 93% participation rate with 51,000 customers
- Net Zero City – Solar Capital



Lancaster's Energy Accomplishments

2010-2011

- Lancaster facilitated partnerships with BYD/KB to create affordable solar housing community "Home of the Future"
- Solar Lancaster Program offers solar financing for residents
- 1st Utility Scale Solar Installed in City

2012-2013

- LPA facilitates 7.5 MW solar install at Lancaster & Eastside School Districts
- LPA lease agreements with Morgan, USTopco, and Psomas for Utility Solar
- Lancaster receives APWA Outstanding Project of Year for Schools

2014-2015

- City launches 1st CCA in So Cal
- 94% participation rate / 46% CARE
- Includes SmartChoice 100% renewable energy option
- Lancaster receives Green CA Leadership award for LCE

2017-2018

- Lancaster designated as Alternative Energy Research Center of Excellence for the State via Senate Resolution 62
- Lancaster Council adopts ZNE Ordinance ahead of State mandate
- Converts all City-owned street lights to LED

2011-2012

- 1.45 MW Solar installed at City Facilities
- City Council Forms Lancaster Power Authority (LPA) for renewable energy efforts
- Lancaster receives Energy Globe World Award in "fire" category for solar projects developed in City

2013-2014

- City Adopts Solar Ordinance requirement for new homes
- Council Adopts PACE programs
- Council approves SASH program
- City Purchases 19,000 streetlights from SCE

2015-2016

- Lancaster received \$1.5M CEC Grant for design of Advanced Energy Community
- Citywide EV Infrastructure Expansion program

2018-2019

- Lancaster reached NetZero Energy goal, procuring/producing more renewable energy than consumed in City limits
- Program Administrator of CPUC-funded Energy Efficiency programs
- Lancaster Receives \$5M CEC Grant for Advanced Energy Community

Innovative Partnerships

100% All-Electric Bus Fleet

- Build Your Dreams (BYD)/Antelope Valley Transit Authority (AVTA)

EV Infrastructure Expansion

- Ebee Smart Technologies

Hybrid JPA Model for Municipal CCAs

- CalChoice

Economic Development

Ready Set Charge

- EV Adoption Incentive Program with Local Auto Mall Dealers and Air Quality Management District
- Incentives and Rebates off purchase / lease new EV/Plug-in Hybrid EV up to \$17,000

Residential Microgrids

- Net Zero Affordable Housing Developments with islanding capability and demonstrating innovative flywheel storage

Virtual Power Plant

- Aggregates city-owned or controlled distributed aggregation resources under one network to be used for load shaping, or real-time market participation

Innovative Programs

Energy Efficiency Program Administrator-2nd Year

- Small Commercial Direct Install program
- Residential Energy Advisor

Advanced Energy Community

- Green District Program
- Resiliency Schools Network
- Residential Microgrids
- Virtual Power Plant



Master Community Design: Lancaster Advanced Energy Community



Advanced Energy Community

Distributed Energy Resource Deployment

Energy Efficiency Programs Administrator

Electric Vehicle Charging Station Network Expansion

NREL Solar Energy Innovation

Transportation Electrification

Green District Program
(Integrates 5 MW Solar and 10 MW Storage for Virtual Power Plant)

ZNE Affordable Residential Developments/Microgrids
(Site 1: 78 Homes, 273 kW Solar, 780 kWh Storage)
(Site 2: 167 Homes, 584 kW Solar, 1.67 MWh Storage, 500 kWh Flywheel Kinetic Storage)

Resilient Schools Network
(3 Microgrids: 1.2 MW Solar, 540 kWh Storage)

Landmark Communication Tower Installs
(Battery Storage)

AVTA Depot Station Energy Solution
(Solar/Battery Storage to provide energy for additional load of E-Buses)

Lancaster Sheriff Station Energy Solution
(Solar/Battery Storage/EV)

Energy Advisor
(Goal Reach: 350 Residential)

Small Commercial Direct Install
(To Date: 124 projects / \$379,225 Value)

AVTA/GreenCommuter Park and Ride
(8 Level II, 1 Level III; Infrastructure for 15 additional stations)

EV SR-14/ EV Connect
(1 level III)

Lancaster City Hall Charger Update
(5 level II)

EBEE BLVD Pilot Project Project
(5 Level II - Streetsights Downtown)

SCE Chargerready - Phase I
(12 level II, AV Hospital Site)

DER Advanced Rate Structure Tool
(Lancaster Choice Energy Pilot for Virtual Simulation Demo)

AVTA 100% Electric Bus Fleet
(83 E-Buses; Solar/Battery Storage install to provide anticipated load of)

"Ready Set Charge" - EV Incentive Program Purchase Local EVs
(\$300,000 LCR Funded)



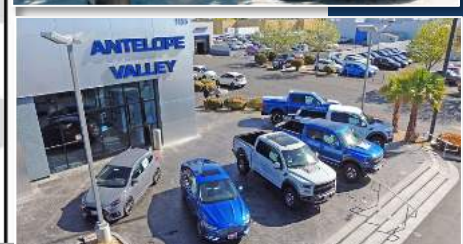
Direct Install Program



Lancaster Choice Energy will save your business money

Energy costs impact your small business' bottom line. Our Direct Install Program will provide you with free energy-efficient equipment like LED lights and occupancy sensors, all with complementary installation.

This program was created to provide qualifying small businesses, those that use less than 200 kilowatts of energy each month, with effortless ways to be more energy efficient. This helps our Lancaster community and our environment.



Kathy Wells
Energy Programs Manager
California Choice Energy Authority
Kathy@CalChoice.org





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The Future is Local

CCEC Forum

August 12, 2021

Stephen Kullmann

Director – Demand Side
Management





RCEA – Humboldt County

- Located in the Northwestern corner of CA
- Most government agencies and local businesses are small
- “Behind the Redwood Curtain”
 - Geographically distant from third party services
- Community support for sustainability
- Mostly Climate Zone 1
 - More heating days than cooling days





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History

Formed as a Joint Powers Agency in 2003 to deliver energy efficiency programs to community and member agencies

In 2017 launched a Community Choice Aggregation program, providing local control, cleaner power, and lower rates to customers in Humboldt County

Longstanding partnership with PG&E delivering both resource and non-resource programs, currently as a Local Government Partnership prioritizing Hard-to-Reach and Public customers

In 2020 became an Elect-to-Administer Program Administrator for Residential and Non-Residential Direct Install

Appx 64,000 customers (over 90% of Humboldt utility customers) and 30 employees



Local Government Partnership

Segments Served:

- Public Agencies
- Non-Residential HTR
- Residential HTR

Public Agencies

Benchmarking
Project Management
Energy Star
Certification
Procurement

Non-Res HTR

Assessments
Reports
Roadmaps
Training
Project bundling
Financing Assistance

Residential

Outreach
Prequalification
Referrals
Energy Advisors
Workshops
Education



Program Administrator

- Residential Direct Install
- Non Residential Direct Install
- In-house team
- Partnerships with local contractors
- Customer self-install





Locally Funded Efforts

- Manage a county-wide network of EV Charging Stations
- Launching a *Virtual Power Plant* integrating multiple behind the meter customer battery systems
- Mobile Home Solar initiative
- Direct to customer rebates
 - Electric bikes
 - Heat Pumps
 - EV Chargers
- Multi-customer solar plus battery airport microgrid
- Prop 39 Assistance to 22 local school districts
- Public Agency Solar Program
- Residential Energy Efficiency Kits
- *Green Your Grow* and *Grocery Refrigeration* programs
- Participating in County's Climate Action Plan
- Developing Racial Justice Action Plan





Planning for the future

- Offshore Wind Development
- Local renewable energy procurement
- More demand response programs and cross cutting measures
- Rural Regional Energy Network



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Thank You



Stephen Kullmann
Director – Demand Side Management
skullmann@redwoodenergy.org



2021 Perilous Plunge fundraiser for
Redwood Discovery Museum



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Local Governments Empowering Our Communities





Upcoming Events



12th Annual California Climate & Energy Forum

Transforming Tomorrow Together

August 3 - 19, 2021

Post-Session Survey:
bit.ly/CCEC-Post-Session-Survey

WEEK 2

- **8/12 Lunch 4:**
BPC Spotlight Event: How Local Governments Can Be Competitive in Today's Funding Climate
- **8/12 Webinar 8:**
Preparing Workers to Build Back Cleaner

WEEK 3

- **8/17 Webinar 9:**
Planning for Energy Reliability Solutions That Do More Than Keep the Lights On
- **8/17 Lunch 5:**
Local Government Electrification: Opportunities and Challenges

To view the entire program visit eecoordinator.info/forum-program/