

MCE

Contra Costa County Sustainability Committee - 3/20/2023



OUR MISSION

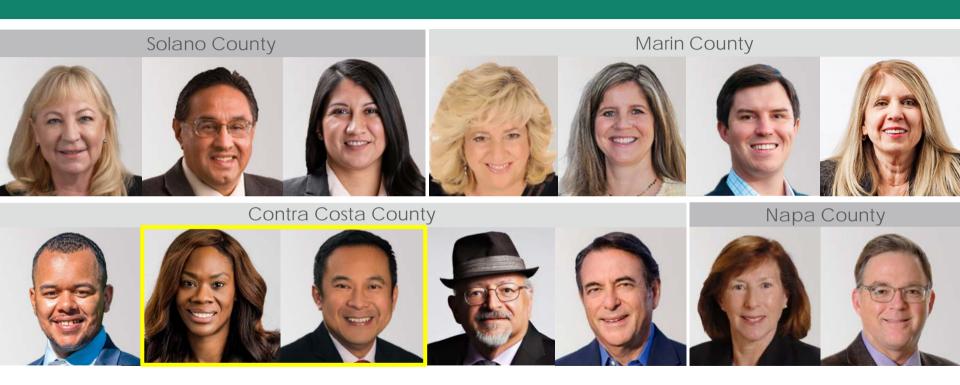
Confront the climate crisis by eliminating fossil fuel greenhouse gas emissions, producing renewable energy, and creating equitable community benefits.

OUR VISION

Lead California to an equitable, clean, affordable, and reliable energy economy by serving as a model for community-based renewable energy, energy efficiency, and cutting-edge clean-tech products and programs.



Not-for-Profit Public Agency



Directors Scales-Preston & Quinto serve as Chair and Vice Chair, respectively.



MCE & Contra Costa County Highlights

- Over 331,000 Customers served by MCE 6000+ Deep Green Accounts
- Over 307,000 Metric Tons of CO₂ reduced to date through MCE electricity generation
- 387 Electric Vehicle Charing Ports installed since 2018 included rebates and technical assistance from MCE
- Battery Storage at 10 Pittsburg Unified School District Campuses - \$715,000 in funding through MCE – estimated \$2.8M in energy bill savings
- Saving energy from 4-9pm County participated in inaugural MCE Peak Flex program in 2022 over \$15k in





BayREN & MCE

- Partnering to lower energy bills, improve comfort of homes, and connect medically vulnerable residents to energy efficiency services
 - County Asthma trigger remediation via contractors, Asthma & Energy Assessments
 - BayREN & MCE Leveraged funds for lighting, heat pumps, energyefficient appliances, HVAC





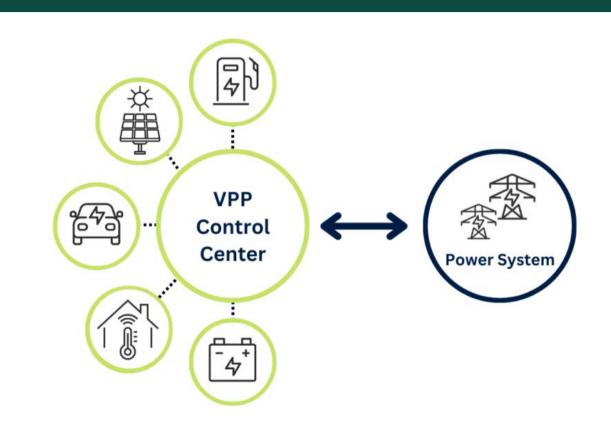


Creating a Clean, Reliable Grid

MCE requires battery storage on all new local solar projects

More than 325MW of battery storage under contract

Distributed Energy Resources - MCE Virtual Power Plant (2025)



Case Study: PUSD





https://www.bayren.org/sites/default/files/2021-11/05_kent_contra-costa-asthma-initiative-presentation.pdf

some talking points that may be helpful 1. as a part of our CPUC funding, we are required to coordinate with BayRen team: our CP team has



Energy Affordability for Residents



Energy Burden: the percentage of gross household income spent on energy costs.

- 18% of Contra Costa County customers enrolled in California Alternate Rates for Energy (CARE)
- \$90 bill credit from California Public Utilities Commission on February bills

MCE offers local control and transparent rate setting





Energy Efficiency

Audits, Rebates, Usage Reduction

- \$2.4M in rebates
- Over 1,200 customers served



Electric Vehicles

Vehicle and Charging Station Rebates

- Over 1,100 EV charging ports installed
- 150 vehicle rebates



Energy Resiliency

Distributed Resources, Demand Response, Virtual Power Plant, and Behavioral Programs

 Shifting load out of peak hours



Electrification

Heat Pump Installs and Contractor Training

 25+ contractors engaged and 125 pumps installed



Equity, Health, & Safety

Health, Safety, and Resiliency Upgrades

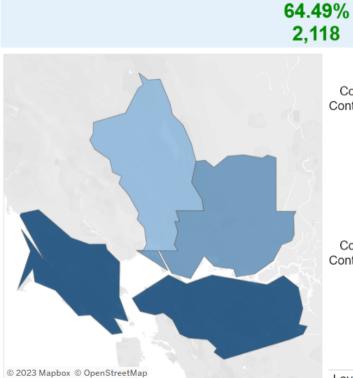
- 200 portable batteries distributed
- \$750,000 in solar rebates

Your Dollars at Work



ELECTRIC VEHICLE CHARGERS



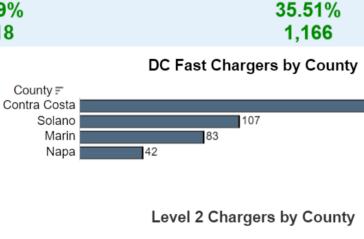




Public

DC Fast

Total Chargers



	Level 2 C	harger	s by County	
County -				
Contra Costa				1,238
Marin			849	
Solano	361			
Napa	349			
,				

© 2023 Mapbox © 0	OpenStreetMap		
Number of Cha	argers		
1			1,000

	Level 2 Chargers by County
County =	



487

3,284

SATE	OF CALIFO	FAIR
ENER	GY COMMIS	SION

County (Multiple values)

Access

(All)

Legend Public

O Public

Shared Private

Shared Private

255

Contra Costa		
Marin		849
Solano	361	

483

2,118

4

1,166

Shared Private

Shared Private Grand Total Public Level 2 1,635 1,162 2,797

MCE Charging

Meeting the Demand for Charging Stations & Shaping EV Charging Load

Benefits

- For workplaces and multifamily properties
- \$3,000 per charging port for 2-20 charging ports
- \$500 extra per charging port for charging stations that have opted up to Deep Green 100% renewable energy
- Free technical assistance



MCE Vehicle Rebate

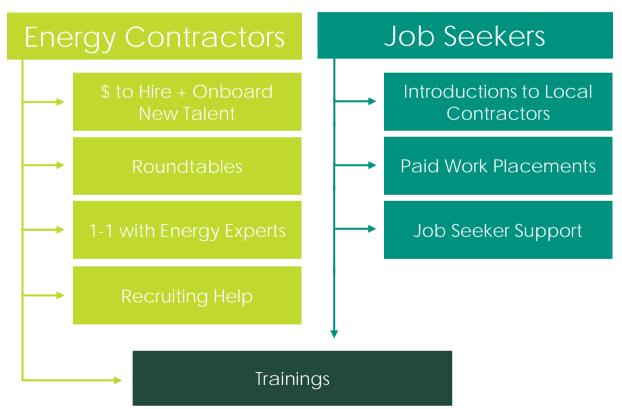
Providing Access to EVs for Income Qualified Customers

Benefits

- Provides a \$3,500 rebate on a new or used electric vehicle for income eligible customers
- Stackable with other rebates up to \$14,500
- \$1 million in rebates distributed to date



Green Workforce Pathways Program





The Power of MCE

- **700K** metric tons of GHGs eliminated since 2010
- 60% renewable since 2017, 100% renewable default
- 95% carbon-free by 2023
- **\$214** M reinvested in MCE communities since 2010
- \$2.4 B committed to building new CA renewable projects
- 48 MW of new renewable projects built in our service area
- 2.8 M labor hours supported
- 6,000 jobs created



Thank You!

Sebastian Conn Senior Community Development Manager sconn@mceCleanEnergy.org

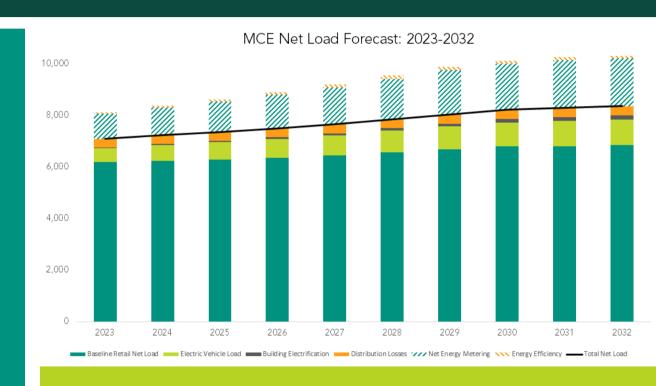


Appendix



Power Purchasing

- Annual assessment of energy needs
- Meeting state mandates for 118% of peak load
- Focusing on clean resources



Long-term forecasting ensures proper planning



Forecasting Energy Demand

- Load Serving Entities, like MCE and PG&E, forecast electricity demand years in advance
- On an annual basis, MCE posts our Operational Integrated Resource Plan (OIRP), which documents MCE's load and electric procurement resource objectives over a ten year planning period



Current planning period: 2023 - 2032



Power Purchasing: Authoritative Bodies



<u>California Energy Commission (CEC)</u>:

 MCE must submit periodic load forecasts to the CEC. The CEC takes MCE's monthly peak demand estimates and adjusts values based on the California system peak demand.



California Public Utilities Commission (CPUC):

 The CPUC receives adjusted peak demand data from the CEC and annually provides MCE with its monthly Resource Adequacy (RA) requirements.



California Independent System Operator (CAISO):

 The CAISO develops RA requirements for the entire California system, including local areas, on an annual basis.



Infrastructure Planning



Image Source: California Independent Systems Operator

- CAISO conducts annual transmission planning process to identify potential system limitations and areas that need reinforcements over a 10-year horizon.
- "The annual planning process, set out in CAISO's federal tariff, provides for the approval of new transmission infrastructure and triggers permitting and construction activities."
- Plan is closely coordinated with CPUC and CFC.