

Community Power Coalition Informational Session

May 29, 2024

Agenda

12:00 Introductions,
Meeting Overview

12:05 MCE Programs
Overview

12:40 Q&A

12:55 Wrap Up

Introductions

Jenna Tenney

MCE Programs Overview

Alice Havenar-Daughton



MCE Customer Programs

Alice Havenar-Daughton,
Vice President of Customer Programs

Purpose & Impacts

Reduce GHG emissions

- 15,560 metric tons CO2 reduced from 2020-2023, equivalent to GHG emissions from 3,703 gasoline-powered passenger vehicles driven for one year.

Foster equity ★

- 5,000 homes with lower income or in a disadvantaged community have received free or low-cost energy efficiency upgrades or EV rebates.

Promote grid reliability

- MCE's PeakFlex Program inspired the Market Access Programs, a 2-year statewide program to address grid reliability issues.

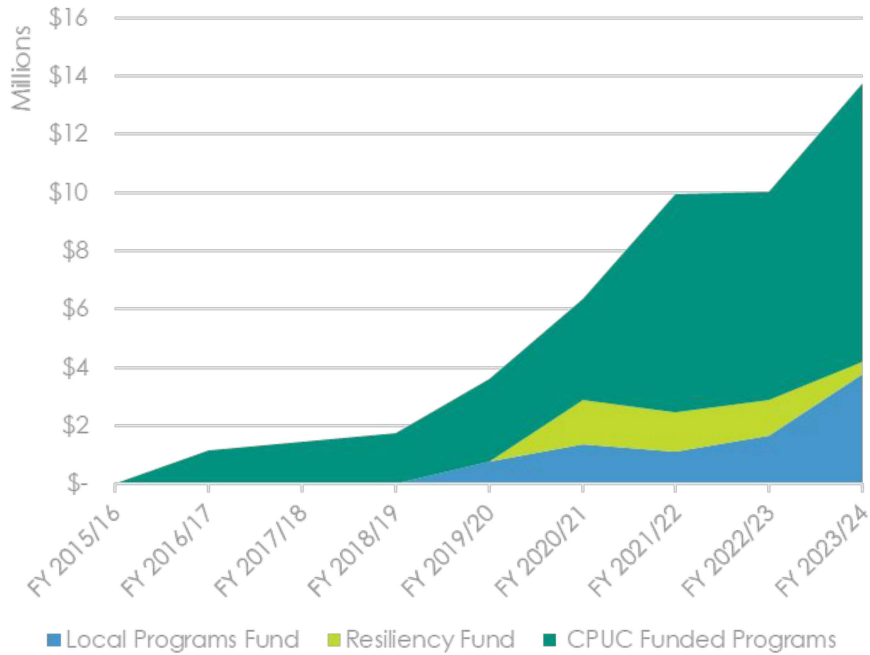
Deepen customer engagement & relationships

- 77,790 total customers engaged in programs.

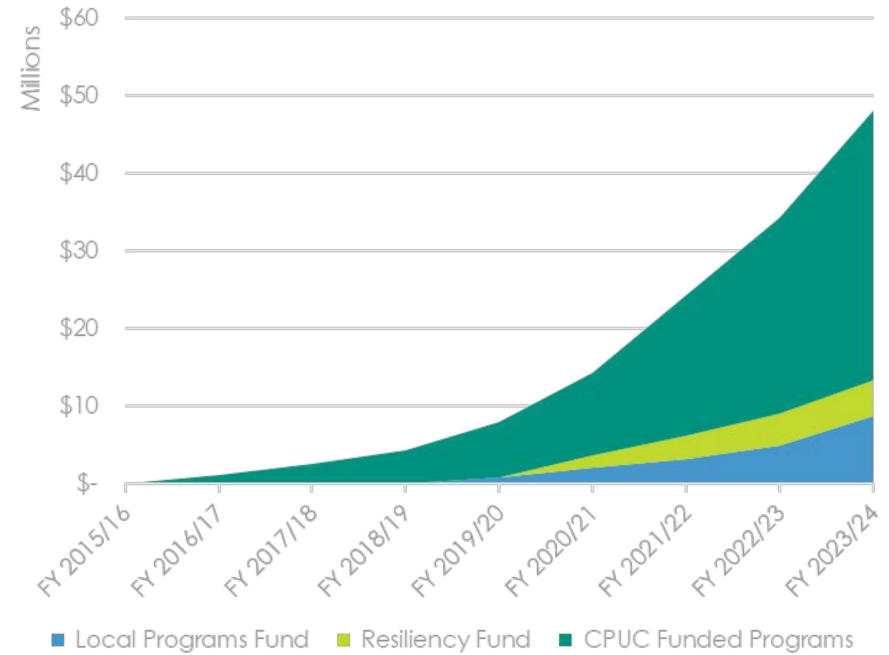
Program Funding

- **16+ active programs** in 2024
- Customer Programs are directly funded by MCE and externally by grants and other sources
- **\$47.3 million** allocated for programs in MCE's current Fiscal Year budget
- **California Public Utilities Commission** \$158 million through 2031
 - Energy efficiency and building electrification
- **Grants Awarded:** \$9.13 million

Annual MCE Program Expenditures



Cumulative MCE Program Expenditures



Program Funding

CPUC Funding Considerations



Home Energy Savings Customer
Pittsburg, CA

Opportunities

- Money is already being collected from our customers - we don't want to ask customers to pay twice
- MCE can help shape future statewide programs
 - Strategic Energy Management, Flex Market, Low-Income Families & Tenants, Home Energy Savings

Challenges

- Less autonomy over how we administer programs

Customer Programs



Virtual Power Plant Overview

- Leverage **Distributed Energy Resources (DERs)** to optimize electricity distribution for efficient and sustainable energy use, especially during peak hours.
- Examples of DERs: rooftop **solar**, **batteries**, **smart thermostats**, **heat pumps**, and **EV chargers**.
- Programs contribute significantly to stabilizing the grid to **prevent power outages** and promoting sustainable energy use.
- Programs include: **Energy Storage Program**, **MCE Sync**, **Peak Flex**, and **Richmond VPP pilot**.

Virtual Power Plant Programs

MCE Sync

- 3,000+ vehicles enrolled
- Shifted 90% of EV charging load out of peak hours
- 1.2 MW of average daily peak load reduction
- Launching dynamic pricing pilot in 2024

Peak Flex

- 3 MW of demand reduction in 2022 from over 2,000 participants

Energy Storage Program ★

- 70 Residential installs completed (1.2 MWh)
- 4.5 MWh batteries under construction at 25 critical facilities

Virtual Power Plant Future Offerings

EV Charging: Residential Rebates (as early as 2024) ★

Battery Storage (as early as 2024) ★

Expansion of Richmond VPP (as early as 2025) ★

VPP Home
Richmond, CA

Virtual Power Plant Strategies

- MCE Sync
- Peak Flex
- Richmond VPP
- Energy Storage Program

MCE Sync

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Peak Flex

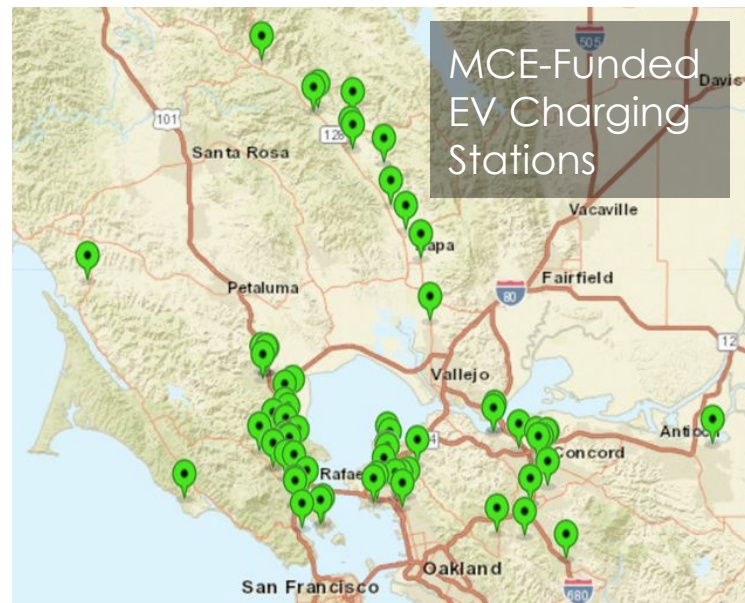
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Energy Storage Program

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- 4.5 MWh batteries under construction at 25 non-res critical facilities

Electric Vehicle Programs Overview

- Support transition to zero-emission vehicles.
- Aligned with Governor's Executive Order to end sales of new internal combustion vehicles by 2035, with medium- and heavy-duty vehicles in 2045.
- **EV Rebates** ★
 - 742 low-income customers
- **Charged by Public Power** ★
- **EV Charging**
 - 1,077 charging ports at 70 locations



Electric Vehicle Future Programs

- **E-bike rebates** ★
- **Fleet electrification support** (as early as 2024)

EV Instant Rebate
Customer
Novato, CA

Electrification Programs



VPP Home
Richmond, CA

Green Workforce Pathways

MCE Heat Pump Water Heater Rebate

Low-Income Families and Tenants

EE Programs

- Home Energy Savings
- Multifamily Energy Savings
- Residential Efficiency Market

Future Offerings

- Heat pump water heater emergency replacement loaner
- Flex Market redesign
- Federal earmarks & regional grants to bolster flagship programs
 - Federal/State - Equitable Building Decarb; HEERA
 - Restaurant Electrification Initiative
 - Panel Upgrade Program

Electrification Impacts

Workforce Development Over \$1 million annual investment

- Green Workforce Pathways develops job-readiness and electrification skills
- Since 2020: over 175 participants, 27 placements in paid work experience positions with qualified electrification contractors

Customer Incentives and Programs Over \$3 million annual investment

- Multifamily Energy Savings & Low-Income Families and Tenants Programs
 - 358 units served, electrification and technical assistance
- Single Family Program
 - 100+ households served, no-cost electrification upgrades
- Heat Pump Water Heater Incentives
 - Cash incentives for heat pump water heaters to over 300 residential customers

Resources and Rates

- Low-income bill savings programs available
- EM&V study on Equitable Electrification
- Website refresh to highlight the benefits of electrification

Energy Efficiency Programs



Multifamily Energy Savings

Efficiency Market

Home Energy Savings

Agricultural and Industrial Resources

Strategic Energy Management

NEW: Small Business Energy Advantage

Energy Efficiency Impacts (2023)

- 5.11 GWh electricity savings and 311,629 therms gas savings
- Avoided 27,076 metric tons of carbon dioxide - equivalent of taking 6,444 gas cars off the road for one year. (Lifecycle)
- Upgraded 9 multifamily properties (653 units) and enrolled 10 properties in the Strategic Energy Management Program
- 41 businesses completed 45 projects - collectively saving over \$475,000 each year in bill savings
- Efficiency Marketplace - 100% increase in participation over last year (38 projects) - 2022 results - 115% realization rate in forecasted savings.
- Upgraded 351 moderate income homes (32 homes received electrification measures)
- Green Workforce Pathways: Support services to 37 job seekers, funded 16 participants in starting new roles with contractors; 4 new contractors received in the field training.

METRICS

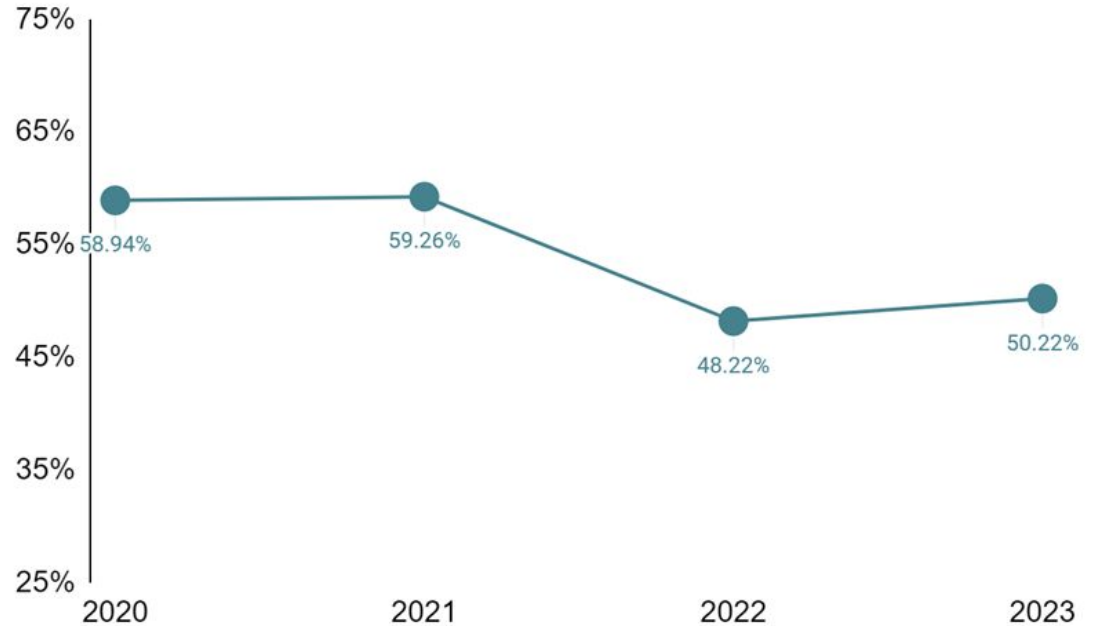


GHG Emissions Reductions from Programs

- \$/MT CO₂e range from \$626 - \$31,609
- Overall weighted average is \$2,167 / MT
- When programs with an equity focus are excluded the weighted average is \$1,134 / MT
- The program with the lowest cost per MT is the commercial energy efficiency program. The program with the highest cost is LIFT (Efficiency Marketplace for non-equity).

Equity

Over the last 4 years, 54% of program funding has gone toward equity programs



QUESTIONS

Next Steps

Next Session

- Listening Session
- Hybrid remote and in-person at MCE's Concord Office
- Tentative topics:
 - Customer Programs
 - Grant Engagement

Questions or Feedback?

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Thank you!
