



Staff Report CAC Item 6

TO: East Bay Community Energy Community Advisory Committee
FROM: JP Ross, Sr. Director of Local Development, Electrification and Innovation
SUBJECT: Local Development Benefits Metrics (Informational Item) October 21,
DATE: 2019

Recommendation

Discuss metrics for the various programs put forward within the Local Development Business Plan.

Local Development Benefits Metrics

Environmental	Economic	Social Equity
<ul style="list-style-type: none">• GHG Reduction• Criteria Pollution• Local Generation• Resilience	<ul style="list-style-type: none">• FTE Equivalent• Direct Wages• \$ Invested• Cost Savings	<ul style="list-style-type: none">• DAC/CARE/FERA/LI• Participation• Environmental• Job Creation

Program Evaluation Framework: Qualitative View of Benefits across Program Areas and Programs

Program Area & Program	Benefit and Metric										
	Environmental				Economic				Social		
	GHG	AP	LG	Res	FTE	Wage	\$	Sav	Part	Env	Jobs
Buliding Electrification											
Reach Codes											
HRMF Technical Assist											
Heat Pump HWH											
Induction Cooking											
Vehicle Electrification											
Fleet TE Assistance											
RE100 LCFS											
MUD Hotspot Mapping											
EVIP Program											
Transit Agency Support											
Demand Response											
Peak Day Pricing											
Battery Pilot											
Elec hot water DR											
Collaborative Procurement											
Solar/Storage Critical Facilities											
RE100 for City Meters											
Local Procurement											
Resilience for RA											
RFI for Storage on Muni											
DAC-GT/CS											
Disconnection Pilot											
Energy Efficiency											
Asses EE Opportunities											
Community Grants											
Community Innovation											
Government Innovation											
Timing	GHG	GHG Reduction			FTE	FT Equivalents		Part	Participation		
Current	AP	Air Pollution			Wage	Direct Wages		Env	Environmental		
Future	LG	Local Generation			\$	\$ Invested		Jobs	Job Creation		
	Res	Resilience			Sav	Cost Savings					

Benefits will accrue across the entire portfolio

Questions for CAC:

Are these the right metrics? Which metrics do we prioritize?



Quarterly LDBP Program and Budget Update

DATE: Sept 27, 2019



BUDGET PLANNING SUMMARY

- Budget allocations are high level & subject to modification
- In-process: Two FTE staff recruitments
- Additional \$1.5M approved by Board (6/19) & allocated to local storage for RA program
- Highlighting activities through end of Q2 (~Jan 2020), additional FY activities to be developed

2020 Budget Areas - Approved 6.19.19	
Program Areas	2020 Budget (\$000)
Demand Response	\$ (150)
Energy Efficiency	\$ (100)
Building Electrification	\$ (675)
Vehicle Electrification	\$ (2,000)
Collaborative Procurement	\$ (600)
Enhanced NEM	\$ (350)
Community Investment Fund	\$ (600)
Sponsorships/Events	\$ (65)
Capital Set Aside	\$ (1,200)
Unallocated Funds 6.16.19	\$ (1,500)
	\$ (7,240)
Non Operational Revenue	
BAAQMD	\$ 150
Grants and LCFS Credits	\$ 750
LDBP Operating Funds	\$ (6,340)

BUILDING ELECTRIFICATION - \$600K

- Current
 - Reach Codes - Stage II (\$150k)
 - Support cities in passing building electrification reach codes to accelerate electrification countywide; 6-8 cities advancing codes
 - High-Rise Multifamily Electrification (\$100)
 - Providing no-cost technical support for developers with late stage buildings currently in design/construction to increase electrification
- Future
 - Electric Heat Pump Hot Water Heater Incentives (\$300k – Feb. 2020 start)
 - Participating in regional BayREN mid-stream incentive program with other CCAs; initiative will kickstart market and enroll equipment in Demand Response Program
 - Induction Cooking Public Engagement/Outreach (\$150k – Oct start)
 - Develop induction cooking strategy using mobile induction cooking station at Alameda County farmers markets

VEHICLE ELECTRIFICATION - \$2M

Current

- EV Charging Infrastructure Planning/Incentives (\$200-\$500k)
 - EBCE to provide technical support to four cities that will assist fleet/sustainability managers in assessing vehicle electrification opportunities.
 - EBCE RFP solicitation to retain consultant issued
- EV Ready Requirements - 2019 Building Codes
 - Continue to provide reach code support to develop EV charging infrastructure requirements in new construction
- CARB Low Carbon Fuel Standard (LCFS) registration
 - EBCE is first CCA to register a RE100 product as a certified Renewable Pathway for LCFS registration, making it possible for charging providers to opt up meters and capture credits
- Multi-Unit Dwelling (MUD) Hotspot Mapping for EV Charging Infrastructure
 - Team has mapped MUD density to target future investments near housing types where individual chargers will be difficult to install

VEHICLE ELECTRIFICATION - \$2M

Future

- 2021 CALeVIP Program Application (2021 - 2024)
 - EBCE submitted non-binding LOI to California Energy Commission (CEC), which manages CALeVIP funding.
 - EBCE request: \$33M investment from CEC + will stack with \$16M EBCE investment (\$4M/yr.)
 - If approved, countywide program will provide first-come-first-serve incentives for charging infrastructure.
 - Joint investment goal: achieve State's goal of >80,000 plug-in EVs on Alameda County roadways x 2025.
- Transit Agencies, School Districts and other L/M/HD Fleets (\$300k – Sept start)
 - Team seeking to provide technical support to stakeholders/customers, and leverage EBCE funding with other existing electrification activities/funding/incentives, to accelerate vehicle and charging infrastructure deployment (ex. BAAQMD, VW Settlement, etc.)

CALeVIP PROGRAM BACKGROUND

Funded by California Energy Commission (CEC)

- CEC program administrator: Center for Sustainable Energy (CSE)
- Up to \$100M/yr. budgeted for Level 2 and DC Fast Charging technology incentives
- CEC requests cost sharing from lead local agency (e.g., EBCE for all of Alameda County)
 - Ex: Southern CA (\$30M, 2018), Redwood Coast (\$4M, 2019), South Bay (\$30M, 2020)
- 25% of funding required for DACs

EBCE's vehicle electrification goals

- County's portion of state's 1.5M ZEV x 2025 goal = 86,000 plug-in EVs
- Current: ~27,000 plug-in EVs
- CEC estimates \$66M in charging infrastructure is needed to meet 2025 EV goal
- EBCE's CEC request: \$33M (will cover 50% of low-end cost gap)
- EBCE will provide an additional \$16M
- Team coordinating additional funding from stakeholders (ex. AMP, EBCE member cities)
- Application for 2021 funding will have public comment period in 2020

DEMAND RESPONSE - \$150K

- Current
 - Peak Day Pricing (\$100k)
 - Large commercial peak day response program for large customers
 - Goal: reduce consumption during high priced hours
 - Battery Demand Response (\$5k)
 - Residential & commercial batteries enrolled
 - Goal: discharge batteries during high priced events
- Future
 - Hot Water Heater Enrollment (\$40k - Dec start)
 - Develop DR program for existing electric hot water heaters and new heat pump hot water heaters
 - Goal: shift load towards low cost (solar) hours/away from high cost evening hours

COLLABORATIVE PROCUREMENT- \$600K

- Current
 - Solar + Storage for Critical Municipal Facilities (\$150k)
 - Completing technical analysis (Alameda/San Mateo county sites)
 - RE100 for City Meters (\$100k)
 - Develop new renewable project for City and Government accounts, RE100 product at Brilliant 100 pricing
- Future
 - Resilience RA Procurement (\$300-\$500k/year – Sept start)
 - Issue solicitation to procure ~10MW of Resource Adequacy by Sept 2021 from distributed storage and solar + storage assets; builds on OCEI SunRun deal, expanding to residential/commercial customers (all categories)
 - RFI for Storage on Municipal Facilities (\$0, Jan start)
 - Issue RFI to determine best procurement pathway for municipal facility project deployment (RA and resiliency)
 - DAC-GT/CS (\$50k - Dec)
 - Develop 6.8MW of solar to deliver 20% bundled discount to CARE customers in DACs.
 - Plan to submit Advice letter to CPUC in December on intent to participate
 - Disconnections Pilot (\$80k, Oct start)
 - Test variety of options to reduce disconnections including CARE/FERA enrollment, installing solar on homes and providing bill relief to effected customers

ADDITIONAL PROGRAMS

Energy Efficiency (\$100k)

- Energy Efficiency Baseline(\$100k – Sept start)
 - Evaluate customer base to identify time-based EE opportunities that are cost effective for EBCE to develop Pay-for-Performance program solicitations

Community Investment Grants (\$600k)

- Current
 - Community Innovation Grants (\$240k)
 - Collaborating with six grant recipients on implementing projects (to be complete by June 2020)
- Future
 - Government Innovation Grants (\$150k – Oct start)
 - Standing offer for grants to local government partners pursuing other grants and/or internal support (i.e. Civic Spark/Climate Fellows)