



# Update: Facilitating Electric Vehicle Adoption in Palo Alto

# PRESENTATION OUTLINE

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- EV Customer Program Highlights
- Review Budget for EV Customer Programs
- How Many Chargers Do We Need?
- Summary
- Discussion





# EV CUSTOMER PROGRAM HIGHLIGHTS

## EV CHARGER REBATE PROGRAM

- To date: 107 new ports installed
- Expecting to pay total of ~ \$500K

## TECHNICAL ASSISTANCE PROGRAM (TAP)

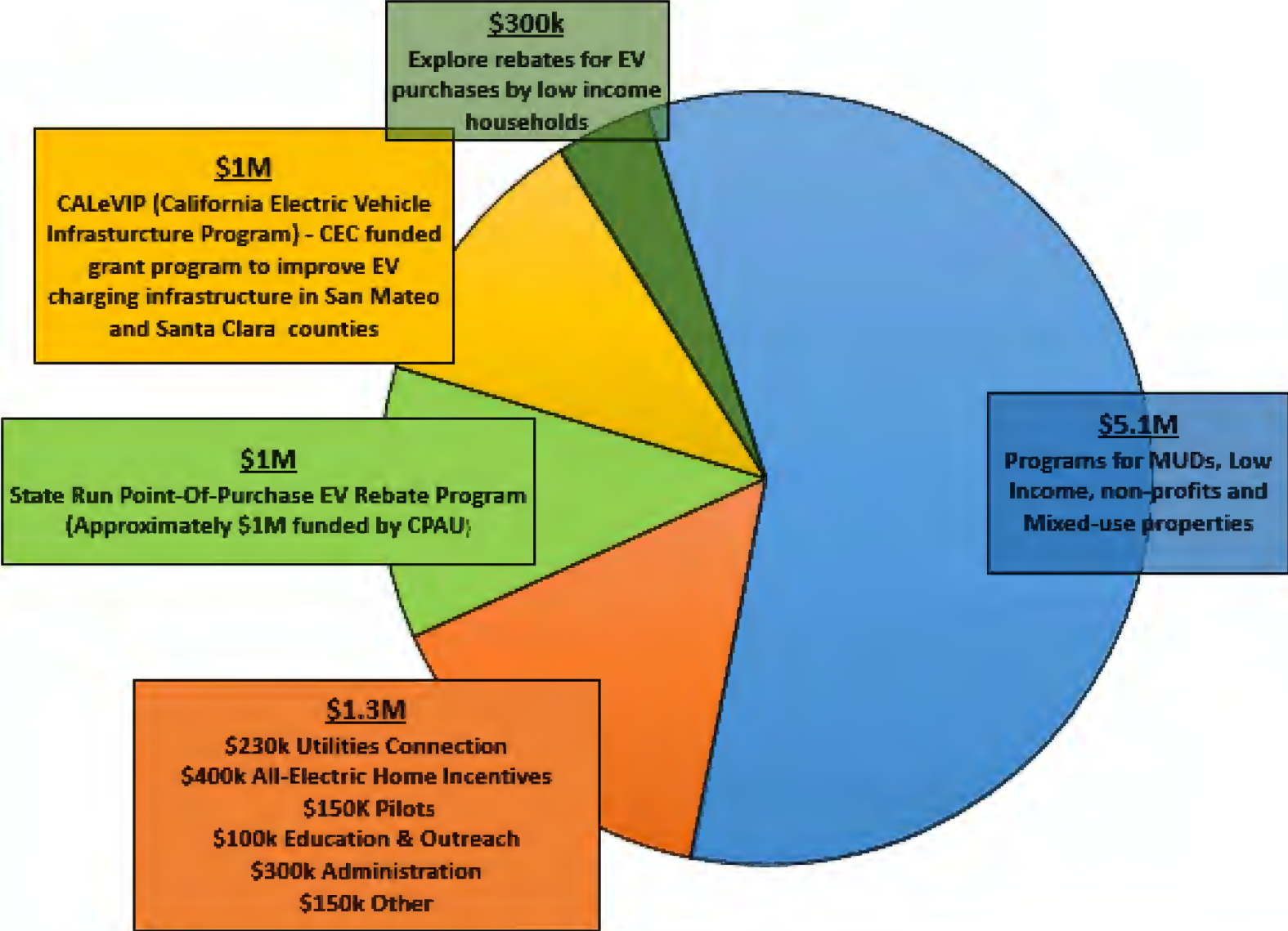
- Goal: 180-360 ports @ 60-90 sites (By 2022)
- Progress: 30 sites enrolled

## OTHER NOTABLE PROJECTS

- Newly installed: 121 Level 2 / 25 DC fast chargers
- Community outreach and events
- CALeVIP: \$1M for DCFC and \$1M for Level 2



# 2020-2022 CPAU EV CUSTOMER PROGRAM BUDGET (funded by LCFS) \$8-9M



# HOW MANY CHARGERS DO WE NEED?

## Palo Alto EV Charging Infrastructure Estimates

	7% EV Adoption in 2020*	80% EV Adoption in 2030 to meet 80x30**
<b>Multi-family</b>	10-20	4,000-5,200
<b>Workplace Level 2</b>	350-400	2,500-3,200
<b>Public Level 2</b>	60-150	1,500-2,400
<b>DCFC</b> (Includes Tesla Superchargers)	25	600-850
<b>TOTAL</b>	<b>445-595</b>	<b>8,600-11,650</b>

\* These numbers are estimates based on the following sources:

1. 7% EV adoption based on 4500 EVs actually registered in Palo Alto
2. [Department of Energy Alternative Fuels Data Center](#)
3. California Air Resources Board – LCFS Non-Residential Charging Data
4. [PlugShare](#)

\*\* Based on [EVI-Pro](#) – NREL/CEC’s EV Infrastructure Projection Tool, extrapolated from the State’s goal of 1.25M EV’s by 2025



# SUMMARY

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ELECTRIC  
VEHICLES

## ***What needs to happen to reach 80 x 30?***

- Increase the number of EVs in Palo Alto from 4,500 (2019) to 42,000 (80% of vehicles)
- Increase the share of EV commute vehicles from single digits to 80% by 2030
- Develop a public and private charging network to support high levels of EV penetration

## ***As Policy Makers, what can we do? - Spectrum of Tools***

- Higher incentives \$
- Lower electricity rates
- Accelerate EV charging infrastructure with additional funds
- Mandates





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