Bay Area
Plug-in Electric Vehicle (PEV) Infrastructure

California Energy Commission
Integrated Energy Policy Report Workshop
June 5, 2014

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Bay Area Air Quality Management District (BAAQMD)

Overview

- Introduction to the Bay Area Air Quality Management District
- Bay Area PEV Readiness Plan for PEV Infrastructure Deployment
- Questions

Bay Area Air Quality Management District (BAAQMD)

- **Established in 1955**
- **7 million population**
  (~ 5.7 million vehicles)
- **9 Counties**
- **5,340 square miles**
- **Mission:** To protect and improve public health, air quality, and the global climate

Bay Area PEV Readiness Plan – adopted Dec. 2013

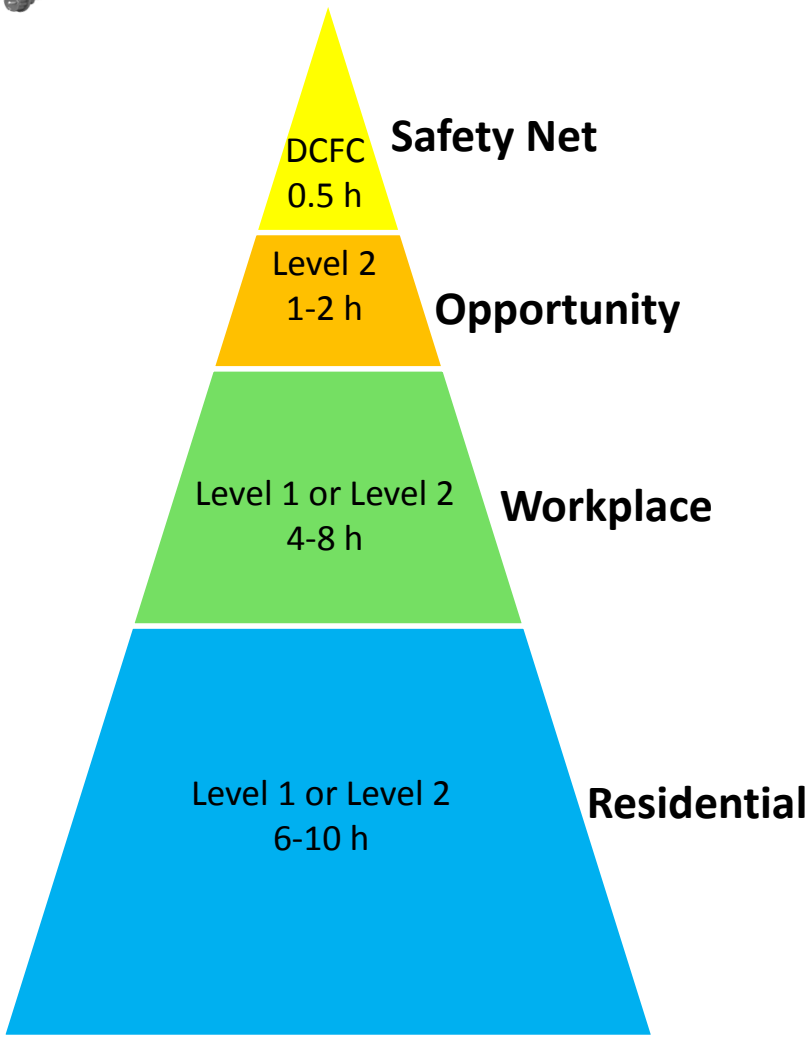
www.BayAreaPEVready.org

PEV Readiness Plan

- Strategies to Accelerate Adoption
  - Regional Siting Analysis
  - Incentives (monetary & non-monetary)
  - Consumer Education and Outreach
  - PEV Services and Manufacturing (Attraction & Retention)
  - PEV Integration into *Plan Bay Area*
- Guidance for PEV Readiness
  - Building Codes
  - Permitting and Inspection
  - Zoning, Parking Rules, and Local Ordinances
  - Stakeholder Training and Education
  - Minimize Grid Utility impacts
  - Regional Government Actions

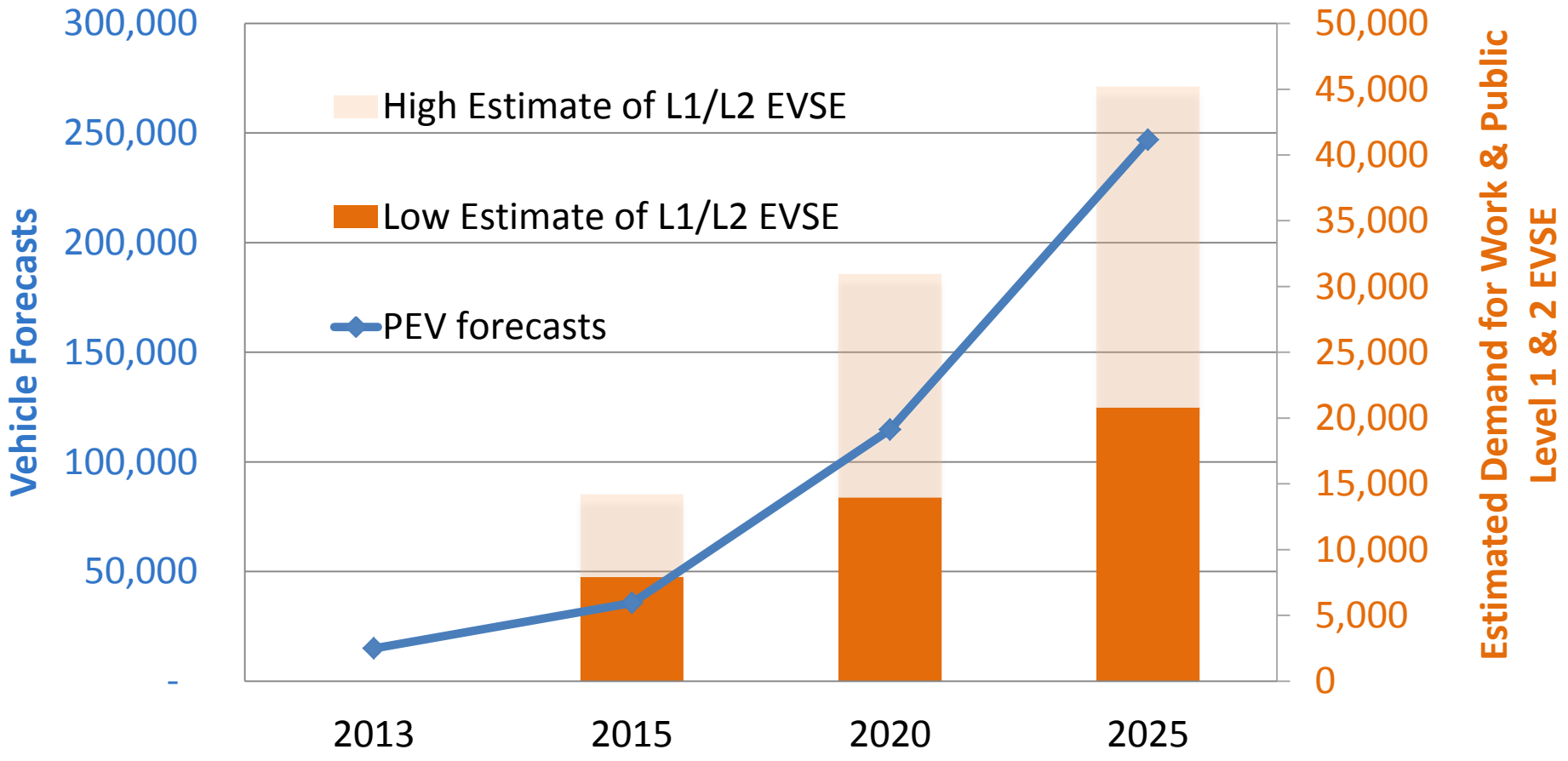
Bay Area PEV Readiness Plan

High-Public-Access vs. Home-Dominant Scenario



Bay Area PEV Readiness Plan

Work & Public EVSE Estimates to Support PEV Forecasts



Estimated demand for DCFC: 75-150 chargers at 35-50 locations by 2025

Bay Area PEV Readiness Plan

Current and Future EVSE and PEV Deployment

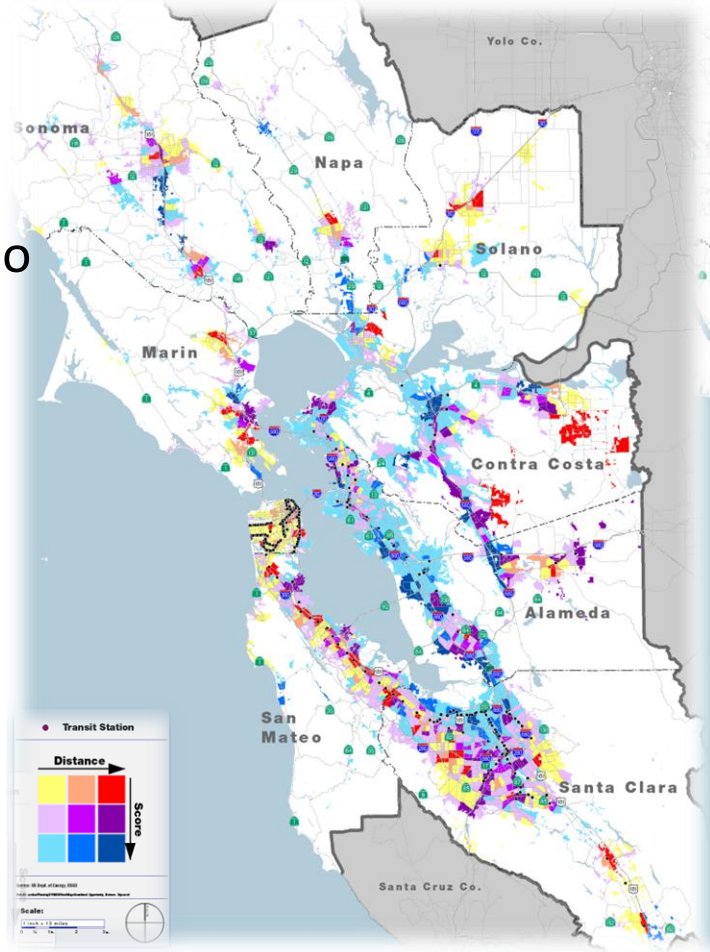
PEVs*:

- **~30,000** PEVs
- 36% of CA's PEVs
- 60/40 BEV-to-PHEV ratio

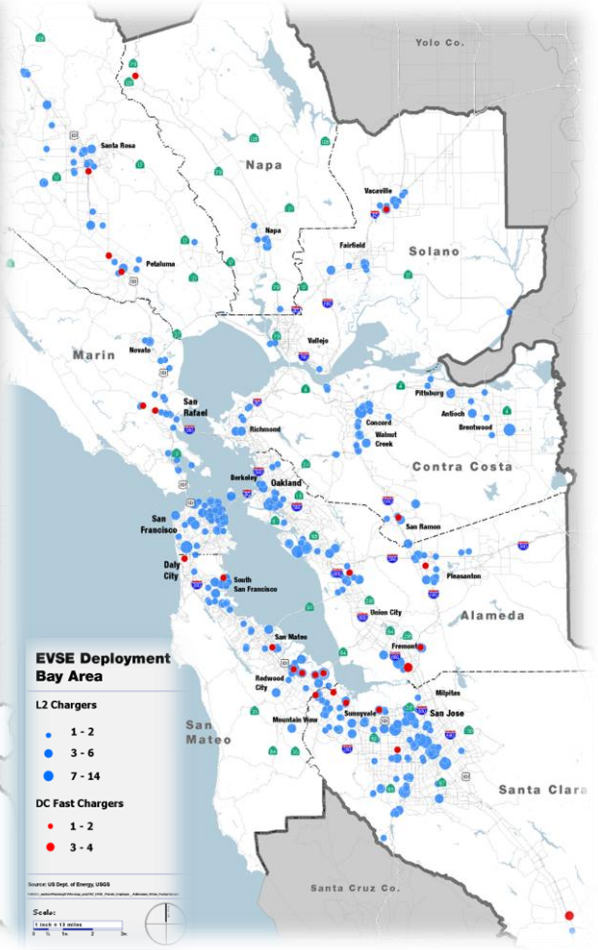
EVSE:

- **~1,700** L1/L2 Publicly available EVSE
- **~60** DCFC – CHAdeMO chargers

EVSE Suitability Study



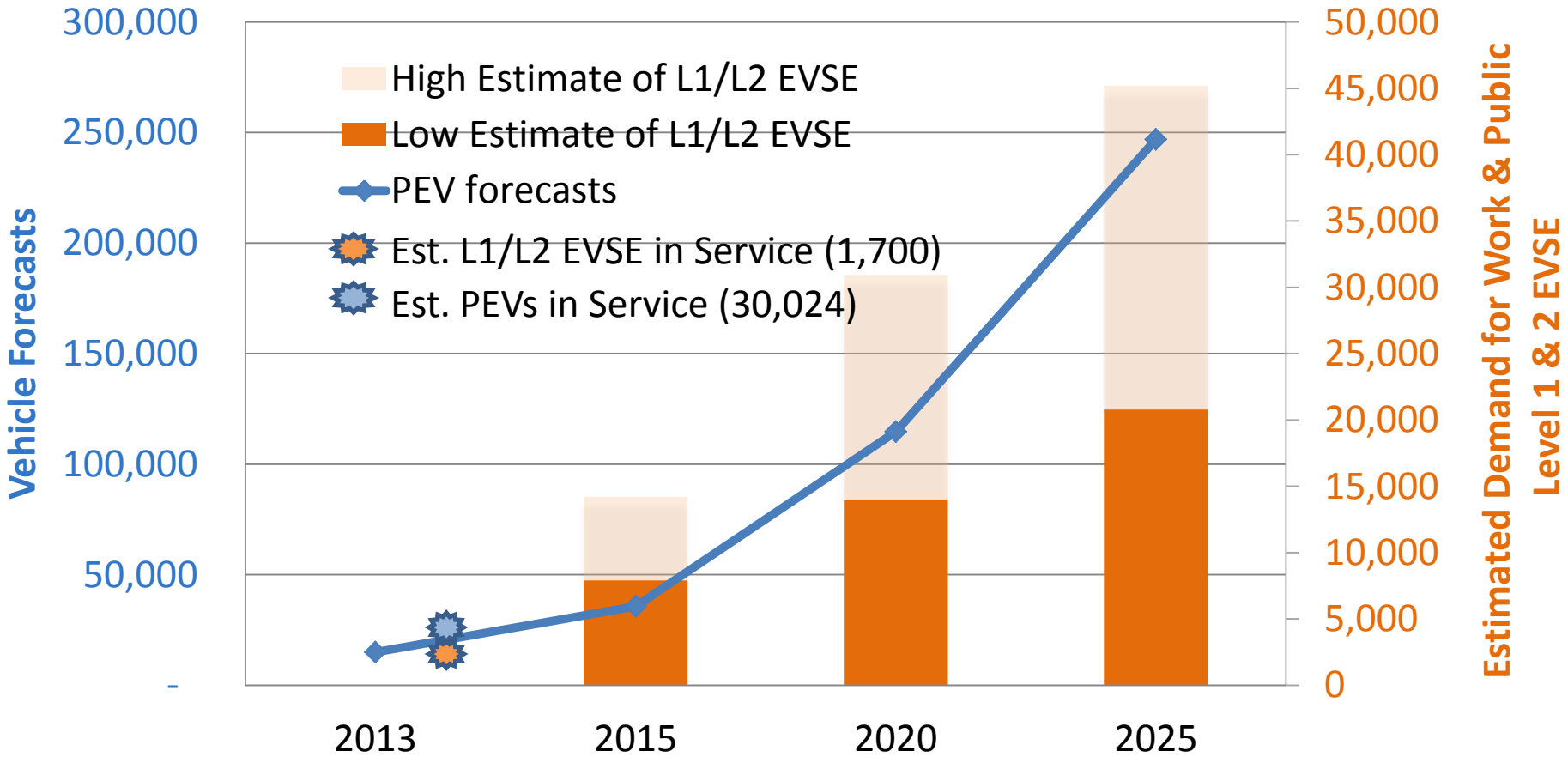
Current EVSE Deployment



*Based on reported CVRP data as of June 2, 2014 and assumed 76% of PEV drivers obtained a rebate based on the CVRP Final Report FY 12/13 (CCSE 2013).

Bay Area PEV Readiness Plan

Work & Public EVSE Estimates to Support PEV Forecasts



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Bay Area PEV Readiness Plan

Getting to 246,900 PEVs by 2025

Bay Area Air District Incentives ($12.75 million):

- PEV Rebates for Public Agencies (OPEN)
- DC Quick Charge Deployment Program (Mid-July)
- Workplace/Multi-Family/Key Destination Charging (Dec 2014)

Other Investments:

- California Energy Commission ($3.4 Million)
- NRG (estimated $26 Million)
- Private Investments

BAAQMD Program Contacts

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