



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Funding for Plug-in Electric Vehicles (PEVs)

March 28, 2016

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Introduction & Background

- Bay Area Air Quality Management District (Air District)
- Electric Vehicle (EV) Goals and Incentives

Funding Available

- PEV Rebate Program for Public Agencies
- Heavy-Duty Zero-Emission Vehicle (ZEV) Program
- *Charge Fast!* Program

Additional Resources

Contact and Questions



Introduction & Background

The Air District:

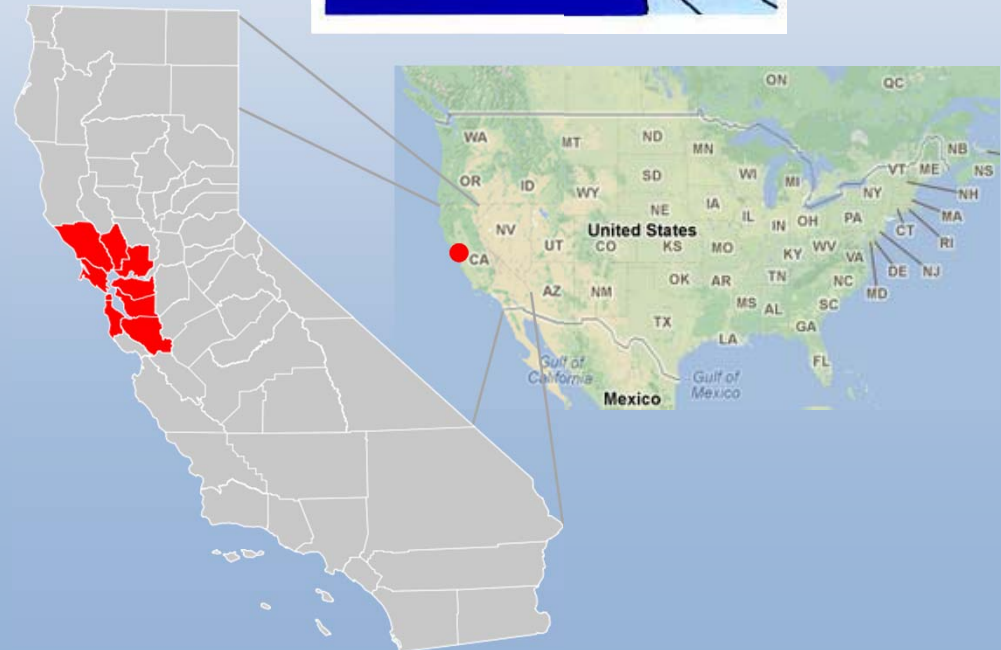
- Established in 1955
- Nine Bay Area Counties
- Seven Million Residents
- 5,340 square miles

NINE COUNTY JURISDICTION OF THE BAAQMD



Our Mission:

To protect and improve public health, air quality, and the global climate





EVs: Goals



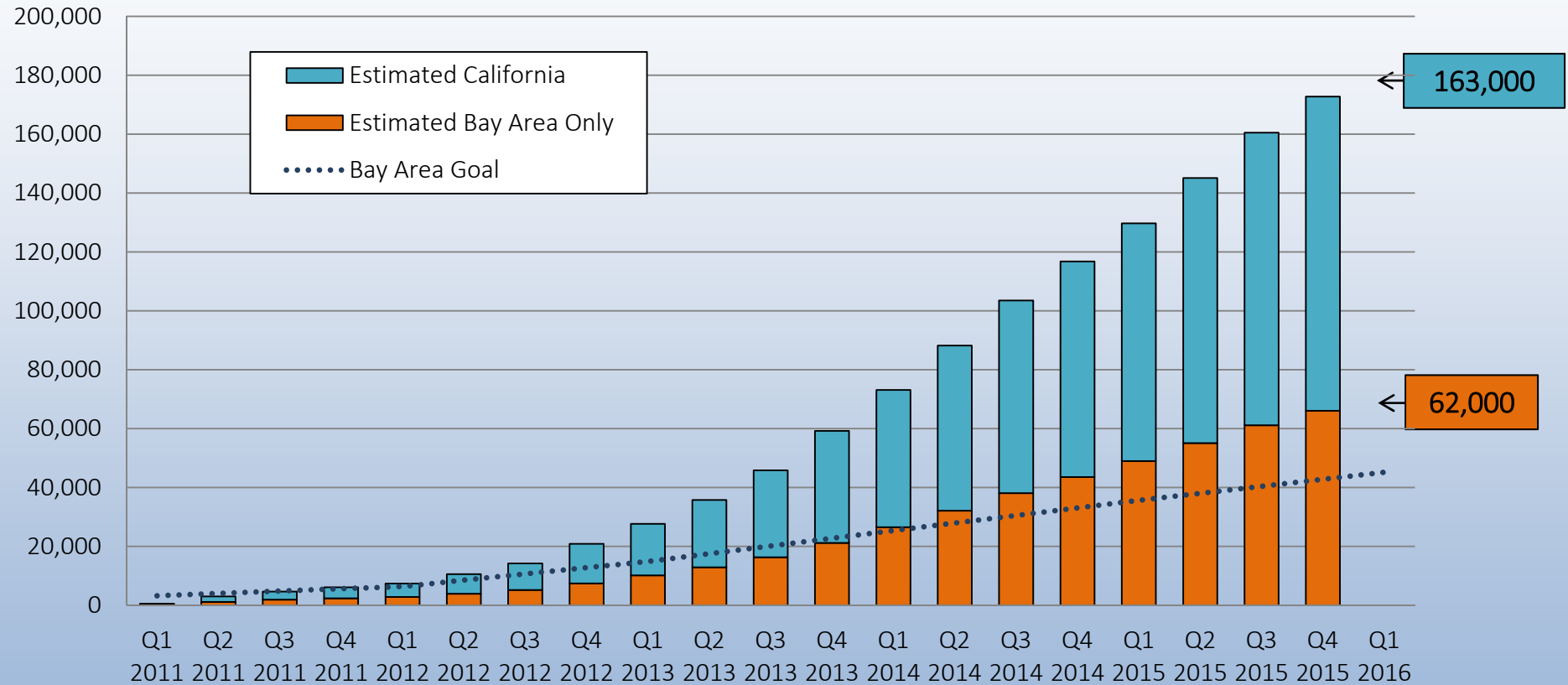
- 2020:
 - 110,000 EVs (Bay Area)

- 2025:
 - 247,000 EVs (Bay Area)
 - 1.5 M EVs (Statewide)



EVs: State of the Market

Goals & Current Estimates of Cumulative PEV sales¹ through December 14, 2015²



¹ Estimated using a 76% rebate use rate and data from CARB PEV Rebates Statistics: Center for Sustainable Energy (2016). California Air Resources Board Clean Vehicle Rebate Project, Rebate Statistics. Data last updated January 4, 2016. Retrieved January 13, 2016 from <http://energycenter.org/clean-vehicle-rebate-project/rebate-statistics>.

² Data for Q4 2015 are only available through December 14, 2015.



Transportation Fund for Clean Air Program (TFCA)

- Funding from \$4 surcharge on motor vehicles for projects that reduce on-road vehicle emissions (1991)
- 60% of TFCA funds awarded directly by BAAQMD:
 - BAAQMD led projects and programs
 - TFCA Regional Fund Program (competitive program)
- Remaining 40% is distributed to the 9-Bay Area Congestion Management Agencies



Air District Funding for PEVs



Vehicles

PEV Rebates (for public agencies)

- Light Duty PEVs
- Neighborhood electric vehicles
- Electric motorcycles

Heavy Duty Zero-emission vehicles

- Heavy-duty vehicles and buses

Infrastructure

Charge Fast!

- Destinations
- Transportation corridors

Charge! (closed)

EV Charging Station Demonstration Program *(closed)*



PEV Rebate Program Summary

Purpose: to reduce up-front cost of acquiring new clean-air vehicles and to help public agencies green their fleets



- \$1.8 million in available funding
- Applications reviewed on first-come, first-served basis, until June 22, 2016, or until funds are exhausted
- Website: <http://www.baaqmd.gov/grant-funding/public-agencies/pev-rebate>



PEV Rebate Program Eligibility

- All public agencies within [Air District's jurisdiction](#) are eligible (e.g., cities, counties, schools, libraries, parks)
- Vouchers issued for purchase/lease of **qualifying new vehicles**
- Vouchers (streamlined grant program) may be redeemed on a reimbursement basis and must be **issued prior to the purchase or lease** of the vehicle
- Vouchers cannot be used to purchase/lease vehicles for the purpose of meeting emissions reductions required by regulation or obligation



PEV Rebate Program Funding

- A maximum of up to \$90,000 in voucher funding per agency, per fiscal year
- Voucher available in the following amounts:
 - \$2,500 per Battery Electric Vehicle (BEV)
 - \$1,000 per Plug-in Hybrid Electric Vehicle (PHEV)
 - \$500 per Neighborhood Electric Vehicle (NEV)
 - \$2,500 per Zero-emission Motorcycle (ZEM)



PEV Rebate Program

Voucher Recipient Requirements

- Available only to Public Agencies
- Obtain all required authorization(s) (e.g., licenses, legal authorizations, permits)
- Operate each Voucher-funded vehicle for at least **3 years** and **15,000 miles**
- Cooperate with financial audit and physical inspection
- Submit **Annual Monitoring Reports**
- Obtain/maintain **Liability and Property Insurance**
- Reimburse the Air District prorated amount of funds provided if program requirements are not met



PEV Rebate Program

Voucher Recipient Requirements (cont'd)

- Complete the following within 120 days from the date the Voucher is issued:
 - Purchase/Lease vehicle
 - Register vehicle with DMV
 - Attach Air District's logo on vehicle
 - Submit PEV Rebate Program Vehicle Purchase Form along with:
 - Vehicle Purchase Agreement (purchase receipt, invoice)
 - Proof of insurance
 - DMV Registration
 - Photos of vehicle's odometer & Air District logo on vehicle



Heavy-duty ZEV Program Summary

Purpose: to encourage fleet operators to choose the cleanest available technology when expanding or replacing their fleet



- \$5.0 million in available funding
- Deadline: Applications reviewed on *first-come, first-served basis*, until June 22, 2016, or until funds are exhausted
- Website: www.baaqmd.gov/HDZEV



Heavy-duty ZEV Program Eligibility

- Eligible Vehicles must be:
 - New (Model Year 2015 or newer)
 - Gross Vehicle Weight Rating (GVWR) > 14,000 lbs
 - Approved for sale/operation in California by the California Air Resources Board



Heavy-duty ZEV Program

Eligibility (cont'd)

- Applicants can be either a public or non-public entity that will operate vehicles within [Air District's jurisdiction](#)
- Applicants must have applied for, and been rejected for, or not eligible for [Voucher Incentive Program](#) or [Goods Movement Program](#)
- Vehicles purchased/leased cannot be used for the purpose of meeting emissions reductions required by regulation or obligation
- Vehicles must achieve minimum 15,000 vehicle miles traveled (VMT) during the life of the project (3 years)



Heavy-duty ZEV Program Funding

- Award amounts are determined by the amount of estimate emissions reductions achieved
- Awards cannot exceed the vehicle's "*incremental cost*", difference in cost between a ZEV and its new diesel/gasoline-fueled counterpart
- Additional \$25,000 for scrapping a compliant model year (MY) 2000-2006 vehicle
 - Registered in the AD Jurisdiction; owned by applicant
 - Be the same weight-class as new vehicle
 - Mileage/fuel usage documents for previous 24 months
- **Up to \$5,000** of awarded funds can be used to install infrastructure to support the vehicle



Charge Fast! Program Summary

Purpose: Fill-in gaps in fast charging network for intra- and interregional travel

Transportation Corridor	Destination
	
<p><u>At least one:</u></p> <ul style="list-style-type: none">• CHAdeMO – DC Fast• SAE Combo – DC Fast• J1772 – Level 2 (new or existing)	

- Available: ~\$800,000 (ARFVT and TFCA funds)
- Deadline: 4:00 PM, Monday, March 28, 2016 (competitive)
- Website: <http://www.baaqmd.gov/grant-funding/businesses-and-fleets/charge-fast>



Charge Fast! Program **Requirements**






- Open to public and non-public entities
- Up to \$40,000 per DC fast-charging station, not to exceed 75% of total eligible costs
- Bonuses available for projects that incorporate solar and wind-power generation
- Sites must be within [Air District's jurisdiction](#)
- Sites are at least 5 miles driving distance from nearest existing publicly available DC fast station.



Charge Fast! Program Funding

Minimum: \$10,000 per application/applicant

Maximum: \$250,000 per applicant

Project Scope	Maximum Award Amounts (Usage Requirement ¹)	
	Level 2 (9,000 kWh)	DC Fast (CHAdEMO + SAE Combo) (75,000 kWh)
 Charging Station	\$3,000	\$40,000
 Bonus for Solar or Wind Power	\$0.50 per kWh generated, and up to a maximum of:	
	\$3,000	\$25,000
   Max. Award	\$6,000	\$65,000

¹ The usage requirement for the Project Life will be evaluated on a per Project basis across all funded charging stations



Additional Funding Sources

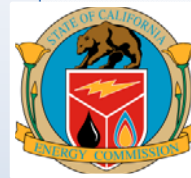
Air Resources Board

- Cap & Trade
- Clean Vehicle Rebate Project (CRVP)
- [California Hybrid & Zero-Emissions Truck & Bus Voucher Incentive Program \(HVIP\)](#)
- Voucher Incentive Program (VIP)
- [Goods Movement Program \(Proposition 1B\)](#)



California Energy Commission

- Infrastructure
- Planning
- Renewable Energy



Other

- Federal (e.g., Department of Energy)
- Metropolitan Transportation Commission
- [CPUC Self-Generation Incentive Program](#)
- [CalCAP EV Charging Station Financing Program](#)



Questions



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