



Transportation Fund for Clean Air (TFCA)

**BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT**

**FYE 2015 Plug-in Electric Vehicle
(PEV) Charging Station Projects
Draft Program Requirements**

March 25, 2015

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***Bay Area Air Quality
Management District***



- **Introduction**
 - Bay Area Air Quality Management District (BAAQMD)
 - Transportation Fund for Clean Air Program (TFCA)
- **PEV Charging Station Projects for FYE 2015**
 - Draft Program Requirements
 - Schedule
- **Public Comment**



Bay Area Air Quality Management District (BAAQMD)

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

- Established in 1955
- 9 Counties
- 7 million population
- 5 million registered on-road vehicles





Transportation Fund for Clean Air Program (TFCA)

- Funding from **\$4 surcharge** on motor vehicles for projects that reduce on-road vehicle emissions (1991)
- TFCA primarily provides funding to eligible trip reduction and alternative fuel vehicle-based projects:
 - **60% of TFCA funds awarded directly** by BAAQMD:
 - BAAQMD led projects and programs (e.g., PEV Charging Stations)
 - TFCA Regional Fund Program
 - **40% of TFCA funds are distributed** to the 9-Bay Area Congestion Management Agencies



PEV Charging Station Projects FYE 2015

[Strategic Incentives](#) | [Bay Area EV Ready](#) | [PEV Charging Deployment Program](#)

- Advanced Technology Demonstration
- On Road Vehicles
- Off Road Vehicles
- Agricultural Equipment
- Marine Vessels
- Lawn Mower Exchange Program
- Locomotive
- Alternative Fuels and Vehicles
- Alternative Transportation
- Funding Sources
- Bay Area PEV Ready
- City CarShare PHEV Deployment Program
- PEV Charging Deployment Program**
- PEV Readiness Plan

PEV Charging Deployment Program

NEW! 3/16/2015

ANNOUNCEMENT! The Bay Area Air Quality Management District (Air District) is currently seeking public comments on the draft requirements for the FYE 2015 Plug-in Electric Vehicle (PEV) Charging Deployment Program. A draft version of the program requirements is available below:

- [Draft PEV Charging Deployment Program Requirements for FYE 2015 \(PDF\)](#)

The deadline for receiving comments is Wednesday, April 1, 2015 by 4:00 PM.

Comments may be emailed to grants@baaqmd.gov or sent by mail to:

Strategic Incentives Division
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109

Please include "Comments for draft FYE 2015 PEV Charging Deployment Program requirements" in the subject line.

Utility Buttons



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Air Quality Widgets | BA

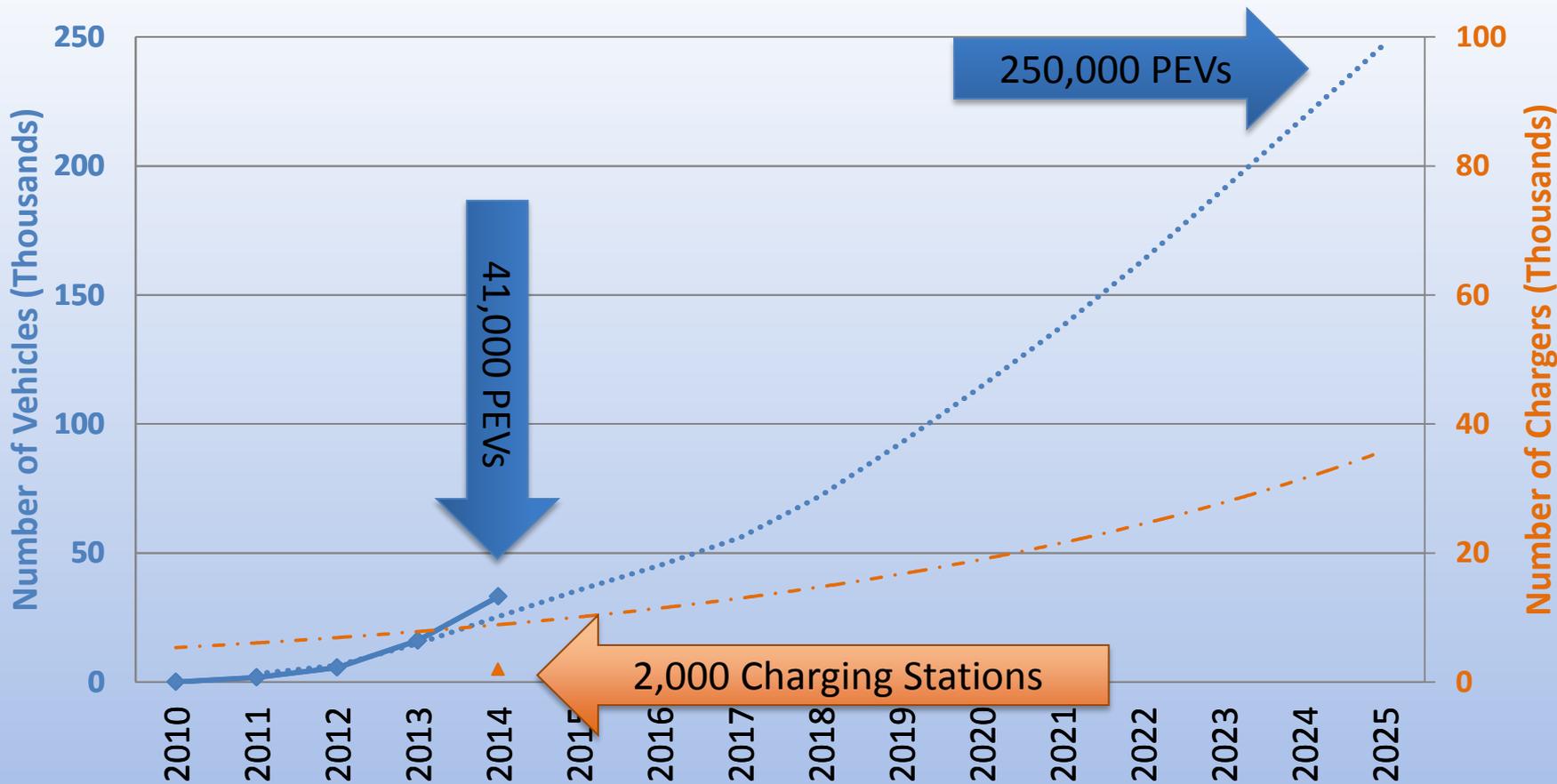
Participate





Background

Bay Area PEV Readiness Plan



Data from the 9 counties: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma



Eligible Recipients, Projects, Costs

- **Eligible Recipients:** Public agencies & non-public entities
- **Eligible Projects:**
 - Achieve **surplus reduction of motor vehicle emissions in BAAQMD's jurisdiction**
 - Comply with all applicable local, State and Federal requirements
 - Are upgrades/improvements that expand access to existing PEV charging stations and new stations
- **Eligible Project Costs:**
 - Labor & material construction costs
 - Labor & fees associated with cost to obtain permits
 - Equipment and equipment shipping costs



Ineligible Projects and Costs

- Projects that do not achieve additional emissions reductions:
 - Duplication
 - Required by ordinance, settlement, or other mandate
- Costs related to:
 - Maintenance, electricity, repairs, and operations
 - Planning activities
 - Development of proposals and grant applications
 - Project Administration



Key General Program Requirements (Applicants)

- In compliance with air quality regulations
- No uncorrected Air District audit findings
- Have insurance
- Have authorization to apply for and obtain permits for property, and authorization to operate station
- Have adequate funds to complete project



Key General Program Requirements (Stations/Equipment)

- Installed ***within Air District's jurisdiction***
- Maintained for at least **4 years and achieve minimum usage requirements** (based on award amount)
- Use an ***open-standard protocol*** for network interoperability
- ***Accept credit cards*** as payment & ***shall not require a subscription*** fee or membership
- **Projects completed** (installed and in-service/operable) **within 9 months**



Grant Awards Based on Project's Cost Effectiveness

Ratio of TFCA funds awarded divided by the total tons of surplus reactive organic gases (ROG), oxides of nitrogen (NO_x), and weighted particular matter (PM_{10}) reduced over the project useful life (4 years).

$$CE = \frac{\textit{TFCA awarded} (\$)}{(\textit{ROG} + \textit{NO}_x + \textit{PM}_{10} \times 20) \textit{ reduced (tons)}}$$



Grant Amount Minimum & Maximum Awards

- **Minimum:** \$10,000
- **Maximum:**
 - \$250,000 Level 2 and Level 1 projects
 - \$600,000 for projects with DC fast; and
 - Payment is made on a reimbursement basis and is limited to 85% of Eligible Project Costs up to the following amounts:

Charging Station Equipment Type	Max. Grant Amount per Charging Point
Direct Current (DC) Fast	\$30,000
Low kW DC Fast	\$5,000
Level 2	\$2,000
Level 1/outlet	\$500



Usage Requirement Example

Award Amount	\$30,000
DC Fast kWh Requirement	96,768 kWh

Award	Vehicle Miles Traveled	Mileage Per Charge	# of Charges	Total kWh/YR	Total kWh (over 4 yrs.)	Monthly	Daily
\$ 35,000	88,200	60.00	1,470	28,224	112,896	122	4.03
\$ 30,000	75,600	60.00	1,260	24,192	96,768	97	3.45
\$ 25,000	63,000	60.00	1,050	20,160	80,640	87	2.88
\$ 7,500	18,900	60.00	315	6,048	24,192	26	0.86

* Based on C/E of \$250k and assumes 19.2kWh per charge



Project Specific Requirements

	Transportation Corridor	Workplace	Multi-Unit Dwelling	Destination
				
Equipment	DC fast, <u>and</u> optional Level 2	DC Fast, Low kW DC fast, Level 2, Level 1, <u>or</u> any combo	DC Fast, Low kW DC fast, Level 2, Level 1, <u>or</u> any combo	DC Fast, Low kW DC fast, Level 2, Level 1, <u>or</u> any combo
Publicly - accessible; In well-lit, secured area	✓	✓		✓



Additional Project Specific Requirements

- Transportation Corridor
 - Located in the following areas:
 - Within 0.25 miles from heavy volume expressway or conventional highway, freeway.
 - and*
 - Outside a 2-mile radius of nearest existing PEV charging station, *or*
 - Within 2-mile limit, must provide evidence that the nearest existing location is not sufficient to meet the high demand;
- Workplace
 - Located at non-residential business employment center (e.g., business park)
- Multi-Unit Dwelling (MuD)
 - Serve multiple housing units that are contained within one building or with a complex or community (e.g., condominiums, apartments)
- Destination Charging
 - Located at commercial, retail, destination location, public garage, or on-street parking (e.g., shopping malls, amusement parks, museums)



Other Considerations

- Encourage projects containing the following components:
 - Solar
 - Battery storage
 - Other demand management or smart charging strategies



Schedule

DATE	ACTIVITY
<i>March 13, 2015</i>	<i>Draft Program requirements released for Public Comment</i>
<i>March 25, 2015</i>	<i>Informational Workshop and Webinar</i>
<i>April 1, 2015, 4 pm</i>	<i>Public Comment Period closes</i>
<i>TBD</i>	<i>Solicitation released</i>
<i>TBD</i>	<i>Solicitation closes</i>



OPEN FOR COMMENTS

Written Comments

Due: Wednesday, April 1, 2015 (4:00PM)

Subject: Comments for draft FYE 2015 PEV Charging Deployment Program requirements

E-Mail Address:

grants@baaqmd.gov

Mailing Address:

**ATTN: Strategic Incentives
Division
939 Ellis St.
San Francisco, CA 94109**