

BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Charge Fast! Program

(Open to public and non-public entities)

Linda Hui, Administrative Analyst

March 16, 2016



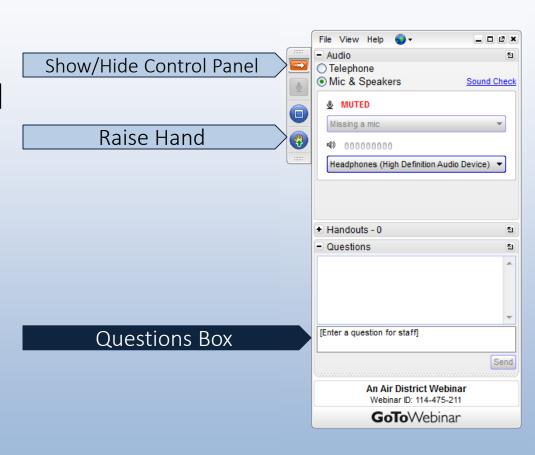
Webinar Information

This webinar is being recorded.

Copies of presentations will be posted to the Program Website after the webinar.

Type in questions using the questions box here.

Questions will be answered at the end of the presentation.







Introduction & Background

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

Program Information

- Funding Sources
- Guidance and Requirements
- Application Process
- Evaluation Criteria

Additional Resources

Contact and Questions



Introduction & Background

The Air District:

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

Our Mission:

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





EVs: Goals





• 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.



Air District Funding for PEVs

www.baaqmd.gov/grants



Vehicles

PEV Rebates (for public agencies)

- Light Duty PEVs
- Neighborhood electric vehicles
- Electric motorcycles

Zero-emission vehicles

- High mileage light-duty vehicles (3 or more) (In Development)
- Heavy-duty vehicles and buses



Infrastructure

Charge Fast!

- Remote Destinations
- Transportation corridors

Charge! (closed)

EV Charging Station Demonstration Program (closed)



Charge Fast! Program

Purpose of Solicitation:

- Fill-in gaps in fast charging network for intra- and interregional travel
- Participate in forums to share best practices, challenges, and lessons learned
- Publish results and usage in a paper

Examples of Participation

- Present project at EV Coordinating Council
- Participate in speaking engagements at EV conferences
- Provide guidance and information to local community



Funding Sources

Transportation Fund for Clean Air (TFCA)

- Purpose: to <u>reduce tailpipe criteria emissions</u> from onroad sources
- \$4 surcharge on motor vehicle registrations

Alternative and Renewable Fuel and Vehicle Technology (ARFVT)

- Purpose: to develop and deploy alternative and renewable fuels and advanced transportation technologies to <u>help attain the state's climate change</u> <u>policies.</u>
- Funding provided by the California Energy Commission (CEC)

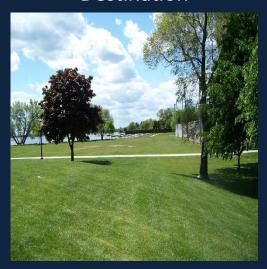


Eligible Facility Types

Transportation Corridor



Destination



- Be within <u>Air District's jurisdiction</u>
- Be <u>at least 5 miles</u> away from an existing publicly available DC fast charging station
- Include <u>at least one:</u>
 - ➤ CHAdeMO DC Fast
 - ➤ SAE Combo DC Fast
 - > J1772 Level 2 (new or existing)



Charging Station Requirements

- Deliver electricity at a minimum rate of
 - 40 kW for DC Charging station
 - ➤ 6.6 kW for Level 2 (new or existing)
- Use an open communication protocol (if networked)
- Capable of accepting on-demand payment without a subscription or membership (if payment is required)
- Be in a well-lit, secured area
- Available to the general public 24 hrs/day and 365 days/yr



Max. Award Amounts

Minimum: \$10,000 per application/applicant

Maximum: \$250,000 per applicant

	Maximum Award Amounts (Usage Requirement ¹)			
Project Scope	Level 2 (<i>9,000 kWh</i>)	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



Minimum Usage Requirements

and EV miles equivalent

	L2	DC Fast	
Usage (kWh)	9,000	75,000	
EV Mile Equivalent (Project Life: 3 years)	30,240	252,000	
EV Mile Equivalent (per year for 3 years)	10,080	84,000	
EV Mile Equivalent (per day for 3 years)	28	230	
Charge Duration (hours per day for 3 years)	1.26	1.92*	

^{*} Assume charging ~4 vehicles for 30 minutes.



Eligible Project Cost

- Projects must commence <u>after</u> contract execution to be eligible
- Costs eligible for <u>reimbursement</u> & <u>match funding</u>:
 - Charging station hardware (including tax and shipping fees);
 - Installation labor, materials (e.g., trenching, wiring, conduit) and necessary electrical upgrades to meet the demands of the Charging Station (i.e., electrical panels and transformers);
 - Permit fees;
 - Hardware or Equipment used to record kWh dispensed from the Charging Station to PEVs (e.g., separate meter, data logger); and
 - For projects incorporating solar or wind power generation: Power generation and battery storage hardware (including tax and shipping fees).



Project Commencement

- Projects that have completed some or all of the items under the Approved Pre-Project Activities are considered "shovel-ready."
- Projects that have commenced prior to the execution of the contract (see Prohibited Pre-Project Activities) are ineligible for funding and will not be awarded funds/will have their funds cancelled if the Air District discovers that the project have commenced.

Approved Pre-Project Activities

- Planning (drawings)
- Obtaining Permits
- Conducting Environmental Review
- Pre-wiring, as part of new construction
- Obtaining cost quotes/estimates

Prohibited Pre-Project Activities

- Pre-ordering equipment
- Purchasing equipment
- Entering into contract/agreement to install chargers
- Beginning construction of charging stations



Schedule (tentative)

DATE	ACTIVITY			
March 28, 2016 at 4 PM	Application deadline – Last day to submit deadlines			
April 13, 2016 at 4 PM	Deadline to receive Board Resolutions			
By May 29, 2016	Air District Board awards highest ranking applicants and issues Notice of Proposed Award to all applicants			
By June 30, 2016	CEC considers the highest ranking applicants and Air District issues Notice of Final Award to all applicants			
By August 31, 2016	Proposed Funding Agreements sent to awardees			
Within 9 months of executing funding agreement	Project Sponsors: • All project-funded equipment must be purchased and placed into service; awards funds must be expended • Final Monthly Interim Status Report and Final Invoice sent to Air District Air District's Initial Payment(s) reimburses grantee 85% of the grant award (not to exceed 63.75% of actual eligible costs)			
After all Project equipment has been installed and placed into service	 Operating Progress Reports: first report after 6 months of operation data, and annually there after during Project Life Final Payment: After first operating report has been submitted and funded chargers have dispensed an average 5,000 kWh Final Inspection: The Air District may conduct a physical inspection of each facility during Project Life 			



Application Submittal Instructions

Submit *electronically* and upload the following:

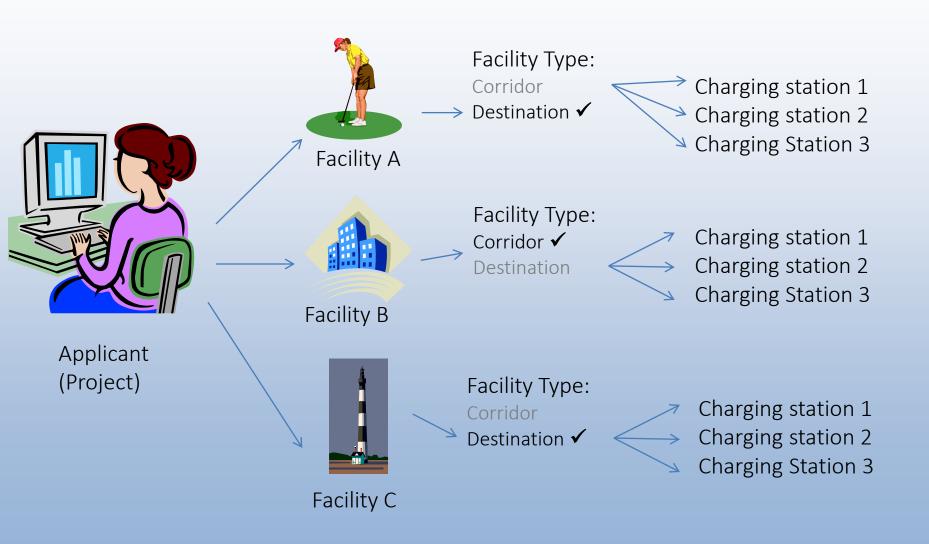
- Evidence of Authority to Apply & Implement the Project
- Proof of authority to install & operate station
- Map showing each location of each proposed facility and each of the charging stations
- Copy of cost estimate/quote for each facility
- Either a copy of the completed environmental review of the project, or a notice of exemption of environmental review
- Proof of insurance

Submit as a *hardcopy only* (do *not* upload):

• W-9



How to Apply?





Example Application

B. CHARGER INFORMATION

-	Total Eligible Cost —								
	Provide a budget below for this facility broken out by charger type. The Air District will determine your match requirement (%) based on cost information provided in this application.								tion.
	Charger Type	Quantity	# of ports/unit	Request/Unit	Solar/Wind Bonus Request/Unit (\$)	Total Request/Unit	Total Request (\$)	Total Eligible Cost (\$)	
	DC Fast - single unit w/dual connectors ▼	1	2 ▼	30000	0	30000	30000	70000	
	Level 2 ▼	1	2	6000	0	6000	6000	10000	Remove
								Add anothe	er charger type
_									
-	Discounts, Credits, & Non-Air District	Grants/R	ebates —						
	Provide a list of ALL discounts, credits, and no						and the second s		
	source and the amount on a separate line. Air District will subtract these funds from your Eligible Cost to determine award amount. Refer to the FAQ for more information about how award amount is determined.								
	Source	Am	ount (\$)	Funding	Status	Charger Type			
	DOE	10	00	Planne	d ▼	DC Fast - single	unit w/dual connecto	ors 🔻	
								Add a	another source

Total Eligible Cost of this Facility: \$ 80000.00

Total Request for this Facility: \$ 36000.00



Evaluation Criteria

Criteria

Cost-effectiveness:

Request a reduced funding amount to improve cost-effectiveness

Prioritize

- projects located either in Highly Impacted Communities/Community Air Risk Evaluation (CARE)
- sites greater than 15 miles from the nearest publicly accessible DC Fast Charger

A contingency list may be created and used by the Air District to provide funding to eligible projects under this or other grant programs.



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

<u>Other</u>

- Federal (e.g., Department of Energy)
- Metropolitan Transportation Commission
- CPUC Self-Generation Incentive Program
- <u>CalCAP EV Charging Station Financing</u>
 Program







www.baaqmd.gov/grant-funding/businesses-and-fleets/charge-fast

Contact us at grants@baaqmd.gov with the subject line "Re: Charge Fast!"

Resources on EV charging stations: www.pevcollaborative.org