

**Item #4**  
**March 9, 2011**  
**Energy Commission Business Meeting**

**ASSOCIATION OF BAY AREA GOVERNMENTS**

**Grant Agreement ARV-10-032**  
**for**  
**Bay Area EV Corridor Project: Phase I EVSE Development**

**Summary**

The Association of Bay Area Governments (ABAG), as part of the Bay Area Electric Vehicle (EV) Corridor Project, plans to establish the greater San Francisco Bay Area as an electric vehicle leader by accelerating the deployment of EV-ready infrastructure and EV-friendly policies and incentives. ABAG proposes to deploy charging infrastructure throughout the nine-county Bay Area Region with an emphasis on 1) addressing the needs of the “garageless” EV driver, especially in densely populated cities, and 2) providing battery-electric vehicle (BEV) drivers with the ability to travel across and within the region without “range anxiety”.

This project will install up to 423 charge points for the Region including 19 DC Fast Chargers, 176 Level 1 and 228 Level 2 charge points. The charging installations will serve neighborhood electric vehicles, legacy EVs that take 110 volt connections, and new EVs that require 240 volt connectors. The DC fast chargers, installed in centrally located, high use locations, will be able to serve up to eight vehicles at a time.

ABAG will contract with Clean Fuel Connection, Inc. to manage local charger installation processes on behalf of local jurisdictions and organizations that wish to participate. The project will develop a standardized price regime to accurately inform prospective program participants about costs, without requiring site-level analysis of every prospective charging station site.

The Energy Commission will provide \$1,493,165 in Alternative and Renewable Fuel and Vehicle Transportation Program funds, and the team will provide match funding of \$2,745,843.

**Benefits**

Battery electric vehicles will annually displace over 430 gallons of gasoline and reduce Greenhouse Gas (GHG) emissions by over 4.6 tonnes per vehicle. Plug-in Hybrid Electric Vehicles (PHEVs) will annually displace over 280 gallons of gasoline and reduce GHG emissions by 3 tonnes per vehicle. ABAG’s corridor project will help realize the petroleum and GHG reduction benefits that BEVs and PHEVs offer by substantially increasing charging opportunities in the Bay Area.

California is home to emerging EV-related industries, including vehicle manufacturers such as Tesla and Fisker; charging equipment manufacturers such as AeroVironment, Better Place, Clipper Creek and Coulomb Technologies; infrastructure installation management firms such as Clean Fuel Connection; and countless high tech developers of electric drive components and software. California firms will provide products and services for this EV infrastructure project. In

addition to the immediate jobs and business benefits for the contracted California firms, the entire California-based EV-related industry will benefit by the establishment of a robust plug-in vehicle infrastructure in the Bay Area– a key foundation for an expanding regional EV market. Finally, establishment of the Bay Area as a national EV leader will attract potential “EV Readiness” federal funding of up to \$10 million, soon to be available.

## **Participants**

### Project Management Partners

- Association of Bay Area Governments – project lead and fiscal agent
- EV Communities Alliance – EV Corridor Project coordination and Energy Commission grant program management
- Clean Fuel Connections – a California-based company that provides turn-key EV charging installation on behalf of Alameda, Contra Costa, Santa Clara, Marin, and Monterey Bay partners
- Ecology Action – EV Corridor coordination in the Monterey region

### Regional Agency Partners

- Bay Area Air Quality Management District
- The Metropolitan Transportation Commission

### Supporting Partners

- Plug-in America for Electric Vehicle Supply Equipment (EVSE) mapping support and EV market analysis
- University of California, Berkeley for policy analysis in support of regional EV incentives
- Bay Area Climate Collaborative – EV Working Group support for EVSE installation process streamlining
- Pacific Gas & Electric for EVSE installation guidance
- Clean Cities Coalitions of the Bay Area for liaison to fleet operators and training/outreach support

Other participants include Bay Area counties and cities, regional transportation agencies and special districts, local colleges, EVSE vendors Better Place and Coulomb Technologies, local businesses, and condominium associations.

## **Project Milestones**

ABAG plans to initiate the project on April 15, 2011 with a final report expected by June 15, 2012. ABAG will begin installation of the charge points in Summer 2011.