

**CALIFORNIA ENERGY COMMISSION**

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**Addendum 2****PON-11-602**

Alternative Fuel Infrastructure  
March 9, 2012

The purpose of this Addendum is the following:

1. To modify Section 6 Eligible Applicants on Page 4
2. To modify Section 7 Eligible Projects and Requirements: Electricity: 1. Residential EVSE on Page 6
3. To modify Section 7 Eligible Projects and Requirements: Electricity: 4 DC Fast Charger Demonstration Project specifications and requirements on Page 7
4. To modify Section 7 Eligible Projects and Requirements: E85 on Page 8
5. To modify the table in Section 9. Funding Levels and Match Funding Requirements on page 10 of the solicitation
6. To modify Section 12. Application Requirements, subsection D. Schedule of Products and Due Dates on page 14 of the solicitation
7. To modify Attachment B (Scoring Criteria), page 5, to include DC Fast Charger Demonstration projects to the match share scoring and Cost Effectiveness scoring formula.

**1. Section 6 Eligible Applicants on Page 4**

**Propane:** School districts, public and private fleets, companies/station owners, public and private entities (such as public agencies, utilities, and businesses, but excluding individuals)

**E85:** Private and public entities (such as public agencies, utilities, and businesses, but excluding individuals)

**Diesel Substitutes:** Transportation fuel producers, terminal owners/operators, fuel marketers, fuel transporters, public and private entities (such as public agencies, utilities, and businesses, but excluding individuals)

**Compressed Natural Gas/ Liquefied Natural Gas (CNG/LNG):** School districts,

public and private fleets, companies/station owners, public and private entities (such as public agencies, utilities, and businesses, but excluding individuals)

**Electricity:** For residential, workplace and fleets: Electric Vehicle Supply Equipment (EVSE) manufacturer, EVSE wholesaler or distributor, public and private entities (such as public agencies, utilities, and businesses, but excluding individuals). For fast charging demonstration: private and public entities, with experience in planning for and installing EVSE.

## **2. Section 7 Eligible Projects and Requirements: Electricity: 1. Residential EVSE on page 6**

1. Residential EVSE (existing single family and multi-unit dwellings) requirements:

- Project is for the installation or upgrade of Level 2 EVSE only. Residential installations or upgrades for single unit housing or semi-detached dwellings are Level 2 EVSE only. Level 1 and Level 2 installations or upgrades are allowed for multi-unit dwellings.
- Level 1 EVSE requirements:
  - Must be certified by the Underwriters Laboratories, Inc. (UL), or equivalent
  - Must have an approved SAE J1772 coupler
  - Must be an AC 110 - 120 volt electrical charger
  - Must have a two-year warranty with full replacement guarantee
- Coordinate with local agencies to streamline the permitting process and notify utilities prior to installation.
- The project must be completed within 12 months of agreement execution.

## **3. Section 7 Eligible Projects and Requirements: Electricity: 4. DC Fast Charger Demonstration Project**

- DC Fast Charger Requirements
  - Uses the [CHAdEMO](#)<sup>1</sup> protocol with provision to upgrade to the new SAE fast charger standard while leaving [CHAdEMO](#) protocol in place for plug-in electric vehicles (PEVs). EVSE using other protocols may be co-located with a CHAdEMO protocol EVSE.
  - If a protocol other than CHAdEMO is co-located at the site, there must be an equal number of CHAdEMO chargers as there are of other protocols at the same site.
  - Ability to communicate with vehicle battery management systems.
  - ~~Requirement for sequential charging for more than two fast chargers.~~
  - Must have a minimum five-year warranty of entire fast charger system with onsite service.

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<sup>1</sup> "CHAdEMO" is an abbreviation of "CHArge de MOve", equivalent to "charge for moving", and is a pun for "O cha demo ikaga desuka" in Japanese, meaning "Let's have a tea while charging" in English. [http://www.chademo.com/01\\_What\\_is\\_CHAdEMO.html](http://www.chademo.com/01_What_is_CHAdEMO.html) Japan Automobile Research Institute (JARI)

- Certified by the Underwriters Laboratories, Inc (UL), or equivalent
- Minimum 30 kW power rating ~~and a minimum of two charging ports.~~

**4. Section 7 Eligible Projects and Requirements: E-85**

- Equipment must comply with American Society for Testing and Materials (ASTM) D 5798, applicable Underwriter’s Laboratory (UL) standards, or equivalent, and applicable National Institute of Standards and Technology (NIST) standards.
- Projects must be at ~~existing gasoline stations~~ existing fueling stations and available to the public.

**5. Section 9. Funding Levels and Match Funding Requirements on page 10 of the solicitation**

The table is modified as follows:

Fuel	Max. Award per Station, Charger or Terminal	Match Requirement	Max Award per Application	Funding Available
Diesel Substitutes	\$0.5 million	50%	\$0.5 million	\$ 3.14 million
Natural Gas for School Fleets	\$300,000	N/A	\$300,000	\$ 9.57 million
CNG Station	50% -(55% if renewable) of total cost, not to exceed \$300,000	50% (45% if renewable)	\$300,000	
LNG or L/CNG Station	50% (55% if renewable) of total cost, not to exceed \$600,000	50% (45% if renewable)	\$600,000	
<b>Residential Level 2 EVSE</b>	N/A	N/A	\$500,000	\$ 7.0 million
<b><u>Residential (Single unit housing or semi-detached dwellings) Level 2 EVSE</u></b>				
<b><u>Multi-unit</u></b>				

<b>Dwellings Level 1 and 2 EVSE</b>				
<b>Workplace Level 1 and 2 EVSE</b>	N/A	N/A	\$75,000	
<b>Fleet Level 1 and 2 EVSE</b>	N/A	N/A	\$75,000	
<b>DC Fast Charger Demonstration</b>	Up to 50% of total cost, not to exceed \$150,000	<u>N/A</u> <u>50%</u>	<u>\$75,000</u> <u>\$150,000</u>	
<b>E85</b>	\$100,000 or 100% equipment cost, whichever is less	50% per station	<u>\$1 million</u> <u>\$2 million</u>	\$10.1 million
<b>Propane for School Fleets</b>	70% of total cost not to exceed \$50,000	30%	\$50,000	\$ 0.5 million
<b>Propane Station</b>	50% of total cost not to exceed \$30,000	50%	\$30,000	

**6. Section 12. Application Requirements, subsection D. Schedule of Products and Due Dates**

Applicants must include a completed Schedule of Products and Due Dates following the format and instructions shown in Attachment E. All work must be scheduled for completion by March 31, 2016, including ~~twelve~~ six months of data collection and reporting. **Electronic files for the Schedule of Products and Due Dates must be in MS Excel.**

**7. Attachment B (Scoring Criteria), section 2. Cost-effectiveness/Match Share**

**2. Cost-effectiveness/Match Share**

**Maximum Points 30**

Describe how the budget will be cost-effective in completing the proposed station(s)/chargers. Explain why state funds are needed for the proposed station(s)/chargers to go forward and if the funding request is consistent with the expected level of public and private benefits that will accrue if the proposed

stations)/chargers are successful. Stations which are more cost-effective will be scored higher.

Describe the amount of non-state Match Funds (cash and/or in-kind) and provide verification and documentation of the source and availability. Provide details (name and business location, type of entity, amount of funding, etc.) for each funding partner.

Describe and quantify the cost effectiveness of the proposed station for reducing greenhouse gas emissions and petroleum use, and document any assumptions used.

**A. Diesel Substitutes, CNG stations, LNG or L/CNG stations, E85 stations, DC Fast Charger Demonstrations, and propane stations (excluding school fleets)**

Ten points of the 30 points available for the scoring criterion will be determined by:

- Applicant brings in a greater amount of cash match (not including in-kind, equipment valuations, or other non-cash types of match) above the minimum amount of identified for each fuel type.
- The project demonstrates a cost share beyond the nominal business expenses.

Applicants that provide cost share above the minimum required match up to 75% will receive points as follows:

- 55% match – 2 points
- 60% match – 4 points
- 65% match – 6 points
- 70% match – 8 points
- 75% match – 10 points