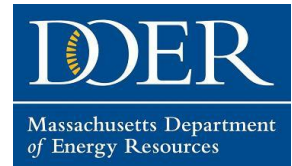


MA Clean Vehicle Project
Deployment of Public DC Fast Charging Stations
-GRANT PROGRAM-



PROGRAM OPPORTUNITY NOTICE (PON): PON-ENE-2015-013

MA Clean Vehicle Project - Deployment of Public DC Fast Charging Stations

The Massachusetts Department of Energy Resources (DOER or Department) is spearheading the *MA Clean Vehicle Project - Deployment of Public DC Fast Charging Stations*. DOER and the MA Clean Cities Coalition (MA CCC) have long been at the forefront of efforts to diversify the types of motor fuels used in the Commonwealth, and to reduce greenhouse gas (GHG) emissions from the transportation sector. In 2013, Massachusetts became part of an eight state Zero-Emission Vehicle (ZEV) action that seeks to put 3.3 million ZEVs on the road by 2015. Recognition of this goal necessitates appropriate recharging infrastructure across the Commonwealth.

Massachusetts has made great strides in advancing Level 2 charging infrastructure and currently has more than 575 publically accessible charging ports. This recharging infrastructure will increase the range confidence of current and prospective EV drivers who are concerned with running out of battery powered miles, as well as those who have planned a route that allows for idle vehicle recharging time at one of their destinations. In keeping with our efforts to lessen the use of petroleum based products as a motor fuel, and reduce greenhouse gas emissions, DOER is announcing a Program Opportunity Notice (PON) to encourage the expansion of DC Fast Charging infrastructure across the Commonwealth.

Awards

This program will use the Congestion Mitigation and Air Quality (CMAQ) improvement program sponsored by the U.S Department of Transportation's Federal Highway Administration. The CMAQ program provides funding through the federal government for surface transportation projects which result in improvements to air quality and roadway congestion mitigation. The main goal is to reduce emissions in areas designated as "nonattainment" and "maintenance" areas for criteria pollutants.

The fulfillment of Commonwealth's commitment to the eight state ZEV action plan requires a northeast network of DC Fast Charging stations. In cooperation with the Electric Power Research Institute (EPRI), the DOER has identified preferred locations for new DC Fast Charging stations. A map indicating these locations can be found at the end of this document. We encourage applicants to refer to these locations, as preference will be given to projects sited within the referenced areas.

This PON will provide partial project funding of up \$50,000 per site. Total funding available for this program is \$400,000.00. All stations must be publicly accessible. Preference will be give to stations with vehicle to grid (V2G) technology. Funds will be distributed upon completion and activation of station.

Schedule

DOER Issues PON on Commbuys: October 7, 2015

Questions accepted by Commbuys: October 7, 2014

Answers finalized on Commbuys: November 7, 2014

Proposals due: January 7, 2015

Winning projects selected: February 14, 2015

Dates after Proposal Due date are *anticipated* dates. All dates are subject to change.

Eligibility

To be considered for a Grant, proposed projects must satisfy all of the eligibility requirements in this section. The eligibility of any Grant Application shall be determined in each instance by the Department.

- a. **Eligible Business.** To be eligible for a Grant, an Eligible Business must, at the time of the application, be:
 - i. a Company, Corporation or Municipality; and
 - ii. in compliance with the Commonwealth's applicable environmental laws and regulations.
- b. **Ineligible Applicants.** A grant applicant is considered ineligible if its owner(s) have been convicted of violating any state or federal civil or criminal environmental law in the past three years.
- c. **Commonwealth Terms and Conditions Contract and Standard Contract Form.** At the time of award, an authorized signatory of a Grantee must execute the Commonwealth Terms and Conditions and Standard Contract Forms issued by the Office of the Comptroller for Grants awarded under 815 CMR 2.00. Grant applicants should carefully review the requirements of these forms prior to submitting a proposal for consideration. The Standard Contract Form and attachments will also identify the amount, duration and scope of the Grant, and applicable fiscal or programmatic reporting requirements for documenting Grant expenditures or performance including the Grantee's return of funds to DOER, if DOER determines that any expenditure was not in accordance with these requirements.
- d. **DC Fast Charger Specifications.**
Fast Charging equipment must meet both SAE Combo and CHAdeMO standards for battery electric vehicles (EVs). Preference will be given to stations compatible with multiple charging networks and payment platforms through open standards-based interfaces, such as OCPP, enabling secure payments via smart phone, credit card reader, parking management terminals, RFID, and pin code access. All proposals must include DC fast charger specifications, including but not limited to the following minimum technical specifications:

Technical specifications

System	Multi-standard DC charging station
Environment	Indoor / outdoor
	-35 °C to +50 °C (de-rating characteristic applies)
Operating temperature	
Storage temperature	-40 °C to +70 °C

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Compliance and safety	c UL us
Input	
AC power connection	3P + PE
Input voltage range	480 VAC +/-10% (60 Hz)
Max. rated input current & power	75A, 60 kVA
Power factor (full load)	> 0.96
Efficiency	95% at nominal output power
DC output	
Maximum output power	50 kW
Output voltage range	200 – 500 VDC (Combo-I) 50 – 500 VDC (CHAdeMO)
Maximum output current	165 ADC +/-5% (Combo-I) 120 ADC (CHAdeMO)
General	
DC connection standard	EN61851-23 / DIN 70121 Combo-I And CHAdeMO 1.0
DC cable length	12 ft (optional: 20 ft)
DC plug type	Combo-I / CHAdeMO
RFID system	ISO/IEC14443A/B, ISO/IEC15693, FeliCa™ I, NFC reader mode
Network connection	GSM / CDMA modem 10/100 Base-T Ethernet
Power consumption idle	25 W (max)
Protection	Type 3R
Operational noise level	< 55 dBA

APPLICANT/RECIPIENT RESPONSIBILITIES

- Coordinate with a vendor that provides station equipment and installation services.
- Submit a request for reimbursement that includes pertinent invoice and backup documentation.
- Maintain and operate the station for a minimum of fifteen (15) years. Should the station be taken out of service, scrapped, or transferred or sold out-of-state prior to the lapse of the fifteen-year period, DOER would be reimbursed for a pro-rated amount of the grant awarded to the public or private entity.
- Submit report of number of kilowatt hours (kWh) dispensed annually for at least five (5) years from the completion of the project.
- The grant recipient is responsible for compliance with all competitive procurement principles and guidelines.

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- Company or public entity personnel shall be trained to operate the station and/or engage a qualified service provider.

All awards are subject to strict adherence to the Federal Highway Administration's **Title 23** including, but not limited to, "Buy America."

Application Process

All applicants must include the following submittals before a proposal is considered complete. Incomplete submittals will not be reviewed until such time that DOER has received all submittals.

Please submit the following in electronic format to: michelle.broussard@state.ma.us.

- Project Summary/Abstract
- Submittal Requirements one through eight listed below.
- Project Cost breakdown workbook (completed in Microsoft Excel spreadsheet)
- Supporting documentation as needed

Project Summary/Abstract

The project summary/abstract must contain a summary of the proposed activity suitable for dissemination to the public. It should be a self-contained document that identifies the project title, the name of the applicant, the project director, and a description of the project.

Additional Submittal Requirements:

1. All proposals must include the Mandatory Criteria Chart below with an attached brief narrative addressing each point:

(A NO ANSWER TO ONE OR MORE ITEMS WILL ELIMINATE AN APPLICANT)

	ITEM	YES	NO
A.	Must be located in MA		
B.	Applicant must demonstrate the ability to fund the balance of the project costs		
C.	Applicant must sign a state contract and therefore must be in compliance with all applicable terms and conditions		
D.	Applicant must agree to install EVSE within one year of contract signing.		

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2. All proposals must include the anticipated location(s) for the station(s) and include a site assessment inclusive of a description of the power requirement availability. Preference will be given to viable projects sited at locations specified as “Fast Charging Locations Needed” on the EPRI Northeast EV Network map in the Appendix. Preference will be given to interstate and Canadian corridor projects located near highway locations such as I-91, I-93 and I-95.
3. All proposals must provide documentation that the appropriate utility has been contacted and assessed any identified power requirement upgrades.
4. All proposals must include a detailed breakdown of all costs. The grantee must do their own procurement for all technology used in this program.
5. All proposals must include a schedule with a project start and end date and a timeline. Projects must be completed within one year of award notification.
6. Partnerships must be fully described in the proposal and must include letters of support detailing each of the participating entities’ financial commitment to the project.
7. All proposals must include a detailed proposer profile and resumes from the primary project manager and project staff.
8. All proposals must include details of what entity will own and maintain the equipment including an equipment disposition plan detailing who will take over ownership and operation of the equipment should the proposer become insolvent.

Evaluation Criteria

DOER will utilize the following criteria as a framework for evaluating proposals, with potential for supplemental considerations.

Criteria 1: Fulfillment of Mandatory Criteria

Criteria 2: Project Management

- Project management plan including detailed design
- Demonstration of existing or new partnerships, commitments or collaborative agreements
- Permits, licenses, lease/and agreements
- Detailed project schedules and milestones
- Experience of key personnel
- Demonstration of historical project success

Criteria 3: Location

Criteria 4: Technical Specification of Stations

Criteria 5: Vehicle to Grid Capability

WRITTEN QUESTIONS VIA THE BID (PON) Q&A ON COMMBUYS

The “Bid Q&A” provides the opportunity for Applicants to ask written questions and receive written answers from the SST regarding this Bid. All Applicants’ questions must be submitted through the Bid Q&A found on COMMBUYS (see below for instructions). Questions may be asked only prior to the Deadline for Submission of Questions stated in the Estimated Procurement Calendar. The issuing department reserves the right not to respond to questions submitted after this date. It is the Applicant’s responsibility to verify receipt of questions.

Please note that any questions submitted to the SST using any other medium (including those that are sent by mail, fax, email or voicemail, etc.) will not be answered. To reduce the number of redundant or duplicate questions, Applicants are asked to review all questions previously submitted to determine whether the Applicant’s question has already been posted.

Applicants are responsible for entering content suitable for public viewing, since all of the questions are accessible to the public. Applicants must not include any information that could be considered personal, security sensitive, inflammatory, incorrect, collusive, or otherwise objectionable, including information about the Applicant’s company or other companies. The SST reserves the right to edit or delete any submitted questions that raise any of these issues or that are not in the best interest of the Commonwealth or this Bid.

All answers are final when posted. Any subsequent revisions to previously provided answers will be dated.

It is the responsibility of the prospective Applicant and awarded Contractor to maintain an active registration in COMMBUYS and to keep current the email address of the Applicant’s contact person and prospective contract manager, if awarded a contract, and to monitor that email inbox for communications from the Purchasing Department, including requests for clarification. The Purchasing Department and the Commonwealth assume no responsibility if a prospective Applicant’s/awarded Contractor’s designated email address is not current, or if technical problems, including those with the prospective Applicant’s/awarded Contractor’s computer, network or internet service provider (ISP) cause email communications sent to/from the prospective Applicant/Awarded contractor and the Purchasing Department to be lost or rejected by any means including email or spam filtering.

LOCATING “BID” (PON) Q&A

Commbuys refers to all solicitations as “Bids.” Log into COMMBUYS, locate the “Bid”, acknowledge receipt of the Bid, and scroll down to the bottom of the Bid Header page. The “Bid Q&A” button allows Applicants access to the Bid Q&A page.

INSTRUCTIONS FOR APPLICANTS

Please submit (a) three bound hard copies of the application and (b) an electronic copy to the contact person listed below.

DOER retains the right to request additional information from respondents, either individually or from all submitting vendors. DOER may, at its sole discretion, elect to request formal presentations from certain vendors of the products or services detailed in their response submissions

Contact:	Michelle Broussard Department of Energy Resources 100 Cambridge Street, Suite 1020 Boston, MA 02114
Telephone:	(617) 626-7377
E-mail:	michelle.broussard@state.ma.us

Appendix

