



Alternative and Renewable Fuel and Vehicle Technology Program

Medium- and Heavy-Duty Advanced Vehicle Technology Demonstration

Pre-Application Workshop (PON-14-605)

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December 19, 2014



Agenda

Welcome and Introductions

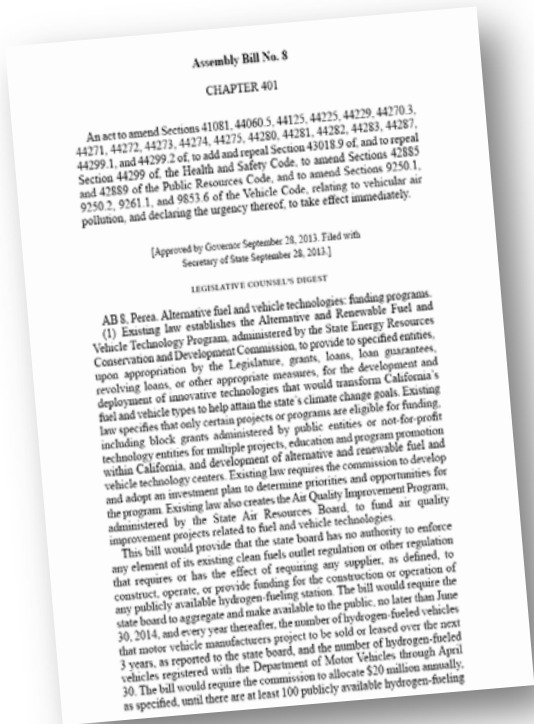
Solicitation Overview

Questions and Answers

Adjourn



Alternative and Renewable Fuels and Vehicle Technology Program (ARFVTP)



- AB 8 (*Perea, Chapter 401, Statutes of 2013*) extends ARFVTP through January 1, 2024.

- Receives up to \$100 million per year to:

Transform California's transportation market into a diverse collection of alternative fuels and technologies and reduce California's dependence on petroleum.

Develop and deploy innovative technologies that transform California's fuel and vehicle types to help attain the state's climate change policies.



Solicitation Purpose

The Energy Commission is seeking applications from eligible entities for Medium- and Heavy-Duty (MHD) advanced vehicle technology demonstration projects. Demonstrations funded under this Program Opportunity Notice (PON) must enhance market acceptance of advanced vehicle technologies that will lead to vehicle production and commercialization, reduce greenhouse gas (GHG) emissions, and reduce petroleum use.



Funding

- \$24,800,000 total funding available.
- \$3,000,000 maximum funding request per application.
- \$500,000 minimum funding request per application.
- 35% match share of the total project costs can include cash, or cash and in-kind. **NOTE:** Greenhouse Gas Reduction Fund (GGRF) monies and Energy Commission funding may *not* be used.
- Commission reserves the right to increase/decrease total funding amount.



Eligible Applicants

- Private, non-profit, and public entities that have experience in vehicle technology development and demonstration. All applicants must have, as a project partner, a vehicle fleet owner or operator.
- Business presence in California.
- Registered and in good standing with the California Secretary of State.



Eligible Projects

- Demonstrate vehicle(s) in the field in California.
- Have a fully developed and operational second/working prototype of the proposed vehicle technology to be demonstrated in the field.
- Demonstrate Class 3 through 8 vehicles having Gross Vehicle Weight Range (GVWR) of 10,001 pounds (lbs) or greater.
- Have a pre-commercial, alternative fuel, engine or propulsion technology or propulsion component technology with zero-emission (ZE) or near-ZE carbon and criteria emissions.
- Conduct a field demonstration of on- or off-road vehicle technologies in California to prove their technical or market viability prior to commercial vehicle or component production.
- Eligible projects include new or repowered vehicle technologies.
- Repowered electric school buses are ***NOT*** eligible.



Eligible Fuels and Technologies

Electric drive, fuel cell electric drive, natural gas, range extenders using hydrogen, natural gas or other low carbon fuels, and plug-in hybrid configurations with alternative fuel as the primary fuel system. Pure natural gas engine technologies with no hybrid configurations are eligible projects but must meet the Air Resources Board's Optional Low NO_x Emissions Standard of 0.02 grams NO_x emissions per brake horsepower-hour (g/bhp-hr).



Eligible Fuels and Technologies (cont.)

- Projects may include improvements in vehicle or engine efficiency that achieves fuel savings. However, fuel efficiency improvements must be greater than 40% when compared to the most current model year vehicle proposed to be demonstrated.
- Projects may include intelligent transportation systems (ITS). However, ITS projects must otherwise be eligible under this solicitation and meet all solicitation requirements.
- Alternative fuel refueling infrastructure and fuel support costs necessary for the proposed project is allowable as match share only.



Disadvantaged Communities

Office of Environmental Health Hazard Assessment has developed the California Communities Environmental Health Screening Tool: CalEnviroScreen Version 2.0 (CalEnviroScreen 2.0). CalEnviroScreen 2.0 will be used by the Energy Commission to identify Disadvantaged Communities (DACs) and maximize the benefits to DACs.

Demonstrations in the top 25% of DACs, as identified by CalEnviroScreen 2.0, will receive the following bonus points:

5 Points = 100% of the proposed demonstration project occurs within DACs.

2 Points = 50% of the proposed demonstration project occurs within DACs.

0 Points = Proposed projects are less than 50% within DACs.



Projects Not Eligible

- Paper studies (e.g., feasibility studies)
- Surveys
- Research
- Development of first vehicle prototypes
- Non-field vehicle demonstration
- Prototype testing to meet certification protocol
- Auxiliary power units (APU)
- Transportation refrigeration units (TRU)
- Repowered school buses



Project Selection and Award

- Competitive grant application process.
- Must pass Screening and Scoring Criteria.
- Must achieve a score of at least 70% (91 of 130 points) to be considered for funding.
- Disadvantaged Communities Bonus Points from will only be applied to projects that meet the minimum 70% passing score.



Project Selection and Award (cont.)

- Proposals ranked and recommended for funding according to overall score.
- Results released through a published Notice of Proposed Award (NOPA).
- Energy Commission will finalize agreement documents.
- Agreement presented at a Business Meeting for approval.



California Environmental Quality Act (CEQA)

- All projects are subject to CEQA review.
- Applicants are strongly encouraged to identify the appropriate Lead Agency with authority to determine CEQA compliance.
- Applicants must comply with CEQA within 6 months of NOPA release.
- The extent of CEQA compliance will be evaluated in Technical Scoring Criteria.
- No project can be approved at an Energy Commission Business Meeting without documented CEQA compliance.



Application Requirements

- **Proposal Cover Page:** Must include a complete and signed cover page shown in Attachment 1.
- **Executive Summary:** Must include project description, project goals, and measurable objectives to be achieved (1 page limit).
- **Project Narrative:** Detailed description of the proposed project, operational goals and objectives, implementation of work tasks, and responses to scoring criteria. (25 page limit)



Application Requirements (cont.)

- **Scope of Work and Schedule:** Complete Attachments 2 and 4. All work must be scheduled for completion by **March 31, 2019**.
- **Project Team:** Identify all personnel assigned to the project and their areas of responsibility including resumes of key personnel. Provide letters of commitment from project partners.
- **Budget:** Complete budget forms contained in Attachment 5 with all requested budget details.



Application Requirements (cont.)

- **CEQA Compliance Form:** Must complete Attachment 7. The Energy Commission requires this information to assist its own determination under the California Environmental Quality Act.
- **Local Health Impacts Information:** Must complete Attachment 8. The Energy Commission requires this information to comply with the Air Quality Guidelines for the ARFVTP.



Applications WILL be Rejected if...

- Application not received by the Grants and Loans Office by the specified due date and time.
- Cover Page (Attachment 1) not signed by authorized representative.
- Minimum 35% match funding not reflected in budget.
- Contains false or intentionally misleading statements or references or intended to mislead the State in its evaluation of the Application.
- Project partners are not identified or documentation confirming their participation is not provided.
- Project is not an Eligible Project (Section II).
- Application contains confidential information.



Applications MAY be Rejected if...

- Application not prepared in the format described.
- Any Application Requirement (Section III) items listed are missing or incomplete.
- Budget (Attachment 5) or Scope of Work (Attachment 2) forms are missing or incomplete.
- CEQA Worksheet (Attachment 7) is incomplete or missing.

**Read the complete Program Opportunity Notice
for full application requirements.**



Scoring Criteria

Criteria	Points
1. Qualifications of the Project Team	30
2. Path-To-Market	40
3. Implementation	20
4. Budget	20
5. Economic Benefits	10
6. Environmental Benefits	10
Subtotal:	130
Minimum Passing (70%)	91
Disadvantaged Communities Bonus Points	0, 2, or 5



Tentative Schedule

Solicitation Release	December 11, 2014
Pre-Application Workshop	December 19, 2014
Deadline for Questions	December 29, 2014
Distribute Answers	~ January 12, 2015
Application Deadline by 3:00 pm	January 29, 2015
Post Notice of Proposed Awards	March 2015
Commission Business Meeting	June 2015



Questions

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*Recommend all questions be submitted in writing
and emailed.*