

# Planning for Zero-Emission Vehicles

## PON-14-603

Staff Workshop  
California Energy Commission

September 18, 2014

Leslie Baroody  
Emerging Fuels and Technologies Office  
Fuels and Transportation Division



# Agenda

**10:00 Welcome and Introductions**

**10:15 Presentation on PON-14-603**

Leslie Barody, EV Program Manager

Jennifer Allen, Supervisor in Emerging Fuels and Technologies Office

**11:00 Questions and Answers**

**12:00 Conclusion**



# Assembly Bill 8 (Perea, Chapter 401, Statutes of 2013)

Assembly Bill No. 8

CHAPTER 401

An act to amend Sections 41081, 44060.5, 44125, 44225, 44229, 44270.3, 44271, 44272, 44273, 44274, 44275, 44280, 44281, 44282, 44283, 44287, 44299.1, and 44299.2 of, to add and repeal Section 43018.9 of, and to repeal Section 44299 of, the Health and Safety Code, to amend Sections 42885 and 42889 of the Public Resources Code, and to amend Sections 9250.1, 9250.2, 9261.1, and 9853.6 of the Vehicle Code, relating to vehicular air pollution, and declaring the urgency thereof, to take effect immediately.

[Approved by Governor September 28, 2013. Filed with Secretary of State September 28, 2013.]

LEGISLATIVE COUNSEL'S DIGEST

AB 8, Perea. Alternative fuel and vehicle technologies: funding programs.  
(1) Existing law establishes the Alternative and Renewable Fuel and Vehicle Technology Program, administered by the State Energy Resources Conservation and Development Commission, to provide to specified entities, upon appropriation by the Legislature, grants, loans, loan guarantees, revolving loans, or other appropriate measures, for the development and deployment of innovative technologies that would transform California's fuel and vehicle types to help attain the state's climate change goals. Existing law specifies that only certain projects or programs are eligible for funding, including block grants administered by public entities or not-for-profit technology entities for multiple projects, education and program promotion within California, and development of alternative and renewable fuel and vehicle technology centers. Existing law requires the commission to develop and adopt an investment plan to determine priorities and opportunities for the program. Existing law also creates the Air Quality Improvement Program, administered by the State Air Resources Board, to fund air quality improvement projects related to fuel and vehicle technologies.  
This bill would provide that the state board has no authority to enforce any element of its existing clean fuels outlet regulation or other regulation that requires or has the effect of requiring any supplier, as defined, to construct, operate, or provide funding for the construction or operation of any publicly available hydrogen-fueling station. The bill would require the state board to aggregate and make available to the public, no later than June 30, 2014, and every year thereafter, the number of hydrogen-fueled vehicles that motor vehicle manufacturers project to be sold or leased over the next 3 years, as reported to the state board, and the number of hydrogen-fueled vehicles registered with the Department of Motor Vehicles through April 30. The bill would require the commission to allocate \$20 million annually, as specified, until there are at least 100 publicly available hydrogen-fueling

Extends ARFVTP funding through  
January 1, 2024

✓ \$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.”*** (Health and Safety Code Section 44272(a))



# ZEV Action Plan Goals



## By 2015

- The State's major metropolitan areas will be able to accommodate ZEVs through infrastructure plans and streamlined permitting



## By 2020

- The State's ZEV infrastructure will be able to support up to 1 million vehicles
- ZEVs will be accessible to mainstream consumers



## By 2025

- Over 1.5 million ZEVs will be on California roadways and their market share will be expanding
- Californians will have easy access to ZEV infrastructure

# Previous Planning Solicitations

## **PON-10-602-- \$2 million for 10 Regional PEV Readiness Plans**

Assists California's regions to develop regional strategic PEV plans to support the deployment of PEVs. Includes best practices for "PEV-ready" building and public works guidelines, streamlining of EVSE permitting, installation and inspection processes and infrastructure plans.

## **PON-13-603--\$2.1 million, first-come, first- served funds**

Will help to prepare California for the increased use of alternative transportation fuels by funding Alternative Fuel Readiness Plans that will provide strategies for the deployment of alternative fuel infrastructure and encourage adoption of alternative fuel vehicles.



## Energy Commission and DOE Regional PEV Planning Grants

| Awardee                                            | CEC \$     | DOE \$    |
|----------------------------------------------------|------------|-----------|
| Bay Area Air Quality Management District           | \$200,000  | \$300,000 |
| Monterey Bay Area (BAAQMD)                         | \$200,000  | NA        |
| Coachella Valley Association of Governments        | \$200,000  | NA        |
| Redwood Coast Energy Authority                     | ~\$200,000 | NA        |
| Sacramento Area Council of Governments             | \$200,000  | \$75,000  |
| San Diego Association of Governments               | ~\$200,000 | \$100,000 |
| San Joaquin Unified Air Pollution Control District | \$200,000  | \$75,000  |
| City of Mt. Shasta                                 | \$200,000  | NA        |
| South Coast Association of Governments             | \$200,000  | \$300,000 |
| Ventura County Air Pollution Control District      | \$200,000  | \$50,000  |



## Awards for Alternative Fuel Readiness Plans PON-13-603

| Applicant                                           | Project Title                                         | Award       |
|-----------------------------------------------------|-------------------------------------------------------|-------------|
| Redwood Coast Energy Authority                      | Northwest California Alternative Fuels Readiness      | \$300,000   |
| Monterey Bay Unified Air Pollution Control District | Monterey Bay Alternative Fuel Ecosystem               | \$300,000   |
| County of Santa Barbara                             | Central Coast Alternative Fuel Readiness Project      | \$299,910   |
| San Diego Association of Governments                | San Diego Regional Alternative Fuel Readiness Project | \$300,000   |
| City of Davis                                       | Davis Alternative Fuel Readiness Plan                 | \$200,000   |
| South Coast Air Quality Management District         | Hydrogen Readiness in Early Market Communities        | \$299,360   |
| Association of Governments of San Mateo Co.         | Alternative Fuel Readiness Plan for San Mateo County  | \$275,810   |
| City and County of San Francisco                    | San Francisco Alternative Fuels Readiness Project     | \$300,000   |
| Total                                               |                                                       | \$2,275,080 |



**\$3.3 Million Available for Zero-Emission Vehicle Readiness to Support New and Existing Planning Efforts for:**

**Plug-in Electric Vehicle (PEV) Readiness**



**Hydrogen Fuel Cell Electric Vehicle (FCEV) Readiness**



# PON-14-603 Funding

**1. \$3.3 million available for:**

- A) PEV Readiness Plan Implementation
- B) PEV Readiness Plan Development
- C) Fuel-Cell Electric Vehicle Readiness

**2. Grants awarded on a “first come, first-served” basis**

Applications accepted until funds are exhausted or by December 2, 2014 by 3:00 p.m., whichever occurs first.

**3. No match funding required**



# Funding Category Allocations and Award Amounts

| Category | Category Name                     | Minimum Award             | Maximum Award                   | Total Funding Available |
|----------|-----------------------------------|---------------------------|---------------------------------|-------------------------|
| A        | PEV Readiness Plan Implementation | \$50,000 per applications | Up to \$300,000 per application | \$1,500,000             |
| B        | PEV Readiness Plan Development    | \$50,000 per application  | Up to \$300,000 per application | \$900,000               |
| C        | FCEV Readiness                    | \$10,000 per application  | Up to \$300,000 per application | \$900,000               |



# Funding Restrictions

## Category A

- PEV Awareness: A maximum of \$50,000 of Energy Commission funding
- Local Government Code Adoption and Training:
  - A maximum of \$20,000 of Energy Commission funding per city
  - a maximum of \$60,000 of Energy Commission funding per application .

## Category B:

- Regional PEV Readiness Plan: \$200,000 maximum per application
- PEV Awareness: A maximum of \$50,000 of Energy Commission funding
- Local Government Code Adoption and Training:
  - A maximum of \$20,000 of Energy Commission funding per city
  - a maximum of \$60,000 of Energy Commission funding per application .

## Category C: No funding restrictions



# Maximum Number of Applications

- Applicants may submit up to two applications:
  - One under Category A or B
  - and
  - One under Category C
- Application submittals exceeding the maximum allowed will be rejected.



# Eligible Applicants

**Categories A and C:** California public entities that can meet the requirements of this solicitation.

**Category B:** California public entities that can meet the requirements of this solicitation and have plans to establish a plug-in electric vehicle coordinating council (PEVCC).



# Eligible Projects for Category A

## **PEV Readiness Plan Implementation:**

- a. Permitting and Inspection Process
- b. EVCS Installation Process
- c. EVCS Siting
- d. Signage
- e. PEV awareness
- f. Local Government Code Adoption and Training



## Eligible Projects for Category B

### PEV Readiness Plan Development:

- For regions that do not have a PEV Readiness Plan adopted or under development.
- Applicant must approve a PEV Coordinating Council adopted draft PEV Readiness Plan first before conducting solicitation activities
- Applicants must show they are referring to existing PEV readiness plans for guidance and include the components listed.
- Maximum of \$200,000 CEC funds for development of Regional PEV Readiness Plan
- Applicants for Category B may also apply for Category A activities, but PEVCC must first adopt plan before activities may begin



## Eligible Projects for Category C

### **Fuel-Cell Electric Vehicle Readiness:**

- Applicant must refer to existing regional planning document
- Regional Hydrogen Refueling Infrastructure Plan
- Streamlining the Permitting Process for Hydrogen Refueling Stations
- Promotion of FCEV Use
- Training
- Safety Assessments
- Incorporation of FCEVs in Municipal Fleets
- Signage
- Site Readiness



# Application Format

- Page Limitations
  - Activity Description Sheets (Attachment 1-a) for PEV Readiness and Regional Hydrogen Refueling Infrastructure Plans: 5 pages maximum.
  - Activity Description Sheets (Attachment 1-a) for all other activities: 1 page maximum each.
  - Letter(s) of Support: 2 pages maximum each.
  - Resumes: 2 pages maximum each.
- Applicants must submit the original and 7 copies of the application.



# Required Documents

- Application Form
- Activity Description Sheet(s)
- Scope of Work
- Schedule of Products and Due Dates
- Project Team
- Budget Forms
- Contacts List
- Letter(s) of Support/Commitment
- CEQA Compliance Form
- Localized Health Impacts Information
- ARFVTP Funding Restrictions Certification



# Activity Description Sheet(s)

- Applicants must submit separate Activity Description Sheet(s) (Attachment 1-a) for EACH selected activity.
- Descriptions must address ALL applicable criteria of the Technical Screening Criteria in the PON.
- Failure to complete these requirements will result in failure of the application.



# Evaluation Process and Criteria

1. Applications accepted on a “first-come, first-served” basis
2. Applicant must pass all administrative screening criteria or will be disqualified
3. If administrative screening passed then applicant continues to technical screening
4. Applicants passing technical screening will be recommended for funding until all funds available through solicitation have been committed



## Administrative Screening Criteria

1. The application is received by the Energy Commission's Contracts, Grants and Loans Office by the specified due date and time specified in Section I of this solicitation.
2. The Application Form (Attachment 1) is complete and signed by the Applicant's authorized representative.
3. The application does not contain confidential information or has any portion of the application marked as confidential.
4. The Applicant agrees to the Terms and Conditions (Attachment 9), to the Special Terms and Conditions (Attachment 10), and to meet all requirements of the solicitation by signing the Application Form. The application does not include any statement in the application that acceptance is based on modifications to those terms and conditions.
5. The application is prepared in the mandatory format described
6. The budget forms are filled out completely.



# Grounds to Reject an Application

- The application contains false or intentionally misleading statements or references which do not support an attribute or condition contended by the Applicant.
- The application is intended to erroneously and fallaciously mislead the State in its evaluation of the application and the attribute, condition, or capability is a requirement of this solicitation.
- The application does not literally comply or contains caveats that conflict with the solicitation and the variation or deviation is material or it is otherwise non-responsive.
- The application does not contain all of the information identified in the Application Requirements.
- The Applicant has previously received funding through a Public Interest Energy Research (PIER) agreement, has received the PIER Royalty Review letter which the Energy Commission annually sends out to remind past recipients of their obligations to pay royalties, and has not responded to the letter or is otherwise not in compliance with repaying royalties.



# Technical Screening

## Category A-PEV Readiness Plan Implementation

- Eligibility of applicant and project
- Project description and activity descriptions
- Project collaboration and coordination
- Funding maximums for certain activities

## Category B—PEV Readiness Plan Development

- Eligibility of applicant and project
- Region description and need for planning
- Description of PEV Coordinating Council and regional team members
- Lead public entity that will accept and administer award
- Description of the development of the Regional PEV Readiness Plan
- Descriptions of selected activities, funding amount, justification
- PEVCC letters of support/commitment
- Funding maximums for certain activities
- Reference to existing PEV Readiness Plans for guidance



# Technical Screening Continued

## Category C: FCEV Readiness

- Eligibility of applicant and project
- Identification of project region
- Project description and activity descriptions and measurable objectives to be achieved
- Separate activity description sheet for each selected activity and funding amount requested
- Summary of selected activity, current situation, gaps and how activity to be conducted
- Discuss how funds will be used to address identified gaps and justification
- Project collaboration and coordination



# Schedule

| Key Activity                                                   | Action Date                                                                |
|----------------------------------------------------------------|----------------------------------------------------------------------------|
| Solicitation Release                                           | September 9, 2014                                                          |
| Written Questions                                              | September 16, 2014—December 2, 2014 by 3:00 p.m. until funds are exhausted |
| Distribute Q/A and Addenda (if any)                            | September 19—December 2, 2014 by 3:00 p.m or until funds are exhausted     |
| <b>Submit Applications</b>                                     | September 9—December 2, 2014 by 3:00 p.m. or until funds are exhausted     |
| Anticipated NOPA                                               | Continuous, as needed                                                      |
| Anticipated CEC Business Meeting Date and agreement start date | Various                                                                    |



# Contact Information

Please submit your questions to:

Phil Dyer, Commission Agreement Officer  
California Energy Commission  
1516 Ninth Street, MS-18  
Sacramento, California 95814  
Telephone: (916) 654-4651  
FAX: (916) 654-4423  
E-mail: [Phil.Dyer@energy.ca.gov](mailto:Phil.Dyer@energy.ca.gov)



Questions?

