



CALIFORNIA ENERGY COMMISSION

# Alternative and Renewable Fuel and Vehicle Technology Program

## FY 2010-2011 Investment Plan Advisory Committee Meeting / Public Hearing

California Energy Commission  
Hearing Room A

July 16, 2010

**DOCKET**

**09-ALT-1**

DATE JUL 15 2010

RECD. JUL 15 2010



# Advisory Committee Meeting Agenda

9:00 Opening Remarks and Introductions

**James D. Boyd**, Vice Chair and Presiding Member, Transportation Committee

**Anthony Eggert**, Commissioner and Associate Member, Transportation Committee

9:20 Investment Plan Schedule and Program Update (Jennifer Allen)  
Program funding and current solicitations

9:45 Key Changes in Committee Draft of 2010-2011 Investment Plan (Pat Perez)

10:15 Advisory Committee Members Remarks and Discussion  
Discussion of 2010-2011 Committee Draft  
Input on the development of the 2011-2012 Investment Plan

11:30 Public Comment

12:00 Lunch



# Public Hearing Agenda

1:00 Opening Remarks

**James D. Boyd**, Vice Chair and Presiding Member, Transportation Committee

**Anthony Eggert**, Commissioner and Associate Member, Transportation Committee

1:15 Investment Plan Schedule and Program Update (Jennifer Allen)  
Program funding and current solicitations

1:30 Presentation of the Committee Draft of 2010-2011 Investment Plan  
(Peter Ward)

2:00 Public Comment



## Tentative Schedule for Investment Plan Adoption

- July 16 – Third Advisory Committee meeting and public hearing on Draft Committee Investment Plan
- July 28 – Public posting of Final Committee Investment Plan
- August 11 – Possible adoption of the Investment Plan at an Energy Commission Business Meeting



## Program Update – Funding Summary

- Workforce Development - \$15,000,000
- ARRA Cost-Sharing - \$36,520,000
  - Received federal contributions of \$105,300,600
- Closed PONs with awards - \$45,247,500
  - Biomethane production (\$21,479,500)
  - Medium- and heavy-duty vehicles (\$9,968,000)
  - Fuel infrastructure (\$13,800,000)
- Division of Measurement Standards - \$4,000,000



## Funding Summary, cont.

- Interagency Agreement with State Treasurer's Office
  - Master agreement for \$39,912,000
  - Closed PON: New biofuel plants (\$14,912,000)
  - Closed PON: Manufacturing (\$19,000,000)
  - Underway: Ethanol producer incentive program (up to \$6,000,000)
- Hydrogen - \$22,000,000
  - Open PON: Fueling infrastructure (\$19,000,000)
  - Future: Hydrogen transit fueling agreement (\$3,000,000)
- Future solicitations and agreements - \$12,450,000
  - Medium- and Heavy-Duty Vehicle Center of Excellence (\$7,000,000)
  - Propane School Bus Incentives (\$2,000,000)
  - Sustainability Analysis (\$2,000,000)



# Summary of Key Changes to the Committee Draft of the 2010-2011 Investment Plan



## General Changes

- Addition of Executive Summary
- Added detailed information from our recent funding activities
- Funding allocation adjustments
  - Allocation of \$5 million for federal cost sharing opportunities
- Changes to section titles
  - “Electric Drive” → “Battery Electric Drive”
  - “Hydrogen” → “Hydrogen Electric Drive”





## Battery Electric Drive

- Added potential ranges of plug-in electric vehicle (PEV) deployments (p. 30)
- Integration “Light-Duty Vehicle Retrofits” into broader “Light-Duty Vehicles” subsection
- Revised “Charging Infrastructure” subsection (pp. 35-41)
  - Connection with ranges of vehicle deployments
  - 1 home charger and .3 public chargers per vehicle
  - Details on previous infrastructure investments and statewide PEV infrastructure coordination efforts
  - Off-peak charging and smart grid integration



## Hydrogen Electric Drive

- Added new survey information on vehicle deployments (p. 46)
- Clarified funding eligibility of fueling infrastructure for non-road applications (p. 50)
  - Must be able to also support on-road vehicles
- Information on active fueling infrastructure solicitation, and how this will impact future needs (p.53)
- Updated the information in Appendix C, pertaining to fueling station availability and funding (pp. C-2 - C-5)



## Gasoline Substitutes

- Revised the section to emphasize an openness toward non-ethanol gasoline substitutes
- Reduced funding for E-85 dispensers from \$8.5 million to \$6.5 million (p. 59)
- Incorporated a description of the California Ethanol Producer's Incentive Program (CEPIP) (pp. 59-61)
- Clarified that \$10 million will be made available for gasoline substitutes production (p. 64)
  - Covers CEPIP and other fuel production projects



## Diesel Substitutes

- Funding for infrastructure will be aimed at encouraging domestic and in-state diesel substitutes and feedstocks (p. 71-72)
- Reduced funding for infrastructure from \$5 million to \$4 million (p. 72-73)



## Natural Gas

- Expanded funding for natural gas vehicles to include light-duty applications (pp. 76-78)
- Revised the carbon intensity estimate for liquefied natural gas (LNG), to account for a more probable LNG fuel pathway (p. A-9)
- Increased funding for natural gas vehicles from \$12 million to \$13 million (pp. 78, 80)
- Decreased funding for biomethane production from \$10 million to \$7 million (p. 85)



# Propane

- No significant changes were made



## Innovative Technologies and Advanced Fuels

- Added “low-carbon intensity aviation fuels” and “renewable methanol fuel” to list of potential areas of interest
- Added a new category, “Federal Cost Sharing,” with \$5 million allocated



## Market and Program Development

- Included potential funding for the Sustainable Transportation Energy Pathways (STEPs) program (p. 104)
- Added language on future program measurement, verification and evaluation needs (p. 105)