

# PLUG-IN POLICY



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California Air Resources Board

# Overview

## California State Agencies

- Air Resources Board
- Public Utilities Commission
- Energy Commission

Policies, Programs, Rulemakings

# California Air Resources Board



Established in 1967 to

- Attain and maintain healthy air quality
- Control pollution from mobile and stationary sources
- Set fuel specifications

Ensure Californians, especially children and the elderly, can live in a healthful environment -- free from harmful exposure to air pollution

# Zero Emission Vehicle Regulation

Production requirements for OEMs

>30,000 battery electric vehicles through 2007

2012-14 requirements:

12,500 BEVs, 58,000 PHEVs

2015-17 requirements:

50,000 BEVs, 83,000 PHEVs

Rulemaking in 2010 may

increase volumes 2015+



# Infrastructure Considerations

Infrastructure policy paper in development

Mid-2010

## Charging Infrastructure

- Residential – majority of units
  - Seamless installations for homeowners
  - Permits, electricians, inspections
  - Rates and
- Workplace or Retail
  - Commercial/Industrial customers
- Public Charging
  - Support municipalities



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# Low Carbon Fuel Standard

Reduction of at least 10 percent in carbon intensity of transportation fuels by 2020

Electricity low carbon fuel

Adopted 4/2009

Implemented 1/2010



# California Public Utilities Commission

Regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies

Key role in clean energy related policies



# Smart Grid Technologies

Guide policy in development of smart grid system

Facilitate integration of demand-side technologies, electric vehicles

Rulemaking initiated 12/2008, proposed decision 11/2009



# Alternative-Fueled Vehicle Tariffs, Infrastructure, and Policies

Develop infrastructure and rates  
to manage impacts of electric  
vehicles on grid

Infrastructure- who pays?

Rates- aligned with system costs

Legal issue- third party electric  
vehicle service providers

Rulemaking initiated 8/2009,  
intended decision 4/2010



# California Energy Commission

State's primary energy policy and planning agency

- Forecasts energy needs
- Promotes energy efficiency (appliance, building standards)
- Alternative and Renewable Fuel and Vehicle Technology Program



# Public Interest Energy Research

Transportation: R&D to reduce petroleum consumption, GHG emissions

PHEV Research Center-UC Davis



# Alternative and Renewable Fuel and Vehicle Technology Program

AB 118 (2007)

Develop/deploy innovative technologies

- Fuels
  - Vehicles
  - Infrastructure (\$3M EVSE)
  - Workforce training
- ~\$100M/year



# Agency Coordination

SB 626: CPUC/CEC/ARB “evaluate policies to develop infrastructure sufficient to overcome any barriers to the widespread deployment of PHEVs and EVs”

AB 118: Funding to both CEC and ARB

CEC Programs: ARB on Advisory Boards

“Grey” areas: building codes, local ordinances, contractor training

# Conclusions

California developing policies and programs  
to facilitate BEV introduction

Interagency communication challenging but  
rewarding

Much to follow in 2010...