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Funding Electric Vehicle Infrastructure in 2016

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Alternative and Renewable Fuel and Vehicle Technology Program

\$17 million allocated by the Investment Plan for fiscal year 2016-17

- Need to conduct robust analysis of use of existing chargers
- Need to determine very focused areas for funding
 - Where are the tough nuts to crack?
 - Where will chargers move the needle for electric vehicle sales?
 - What will give the biggest bang for the \$17 million bucks?
- Need to get the money out to where it is needed as quickly and painlessly as possible for the recipients
- Need to continually increase investments outside of the program to get to a sustainable EV market



A Brief History of Time: From the Big Bang to Black Holes



Awarded \$8 million in fall of 2009 for largest transportation electrification project to date to support Nissan Leaf and Chevy Volt rollouts in the San Diego and Los Angeles areas.



Awarded \$3.417 million in late spring 2010 to provide the chargers for the San Francisco (and surrounding counties) and Sacramento areas.

“Up From the Ashes”

Awarded ClipperCreek (in partnership with EV Connect) \$2.3 million in 2011 to refit legacy chargers from 1990 to 2003.

These formed the foundation of almost 3,000 charger installations and upgrades in California.



Driving range expanded as chargers were deployed.



First generation Nissan Leafs fitted with GPS trackers:
As chargers were deployed and operational, the drivers expanded their range and use.

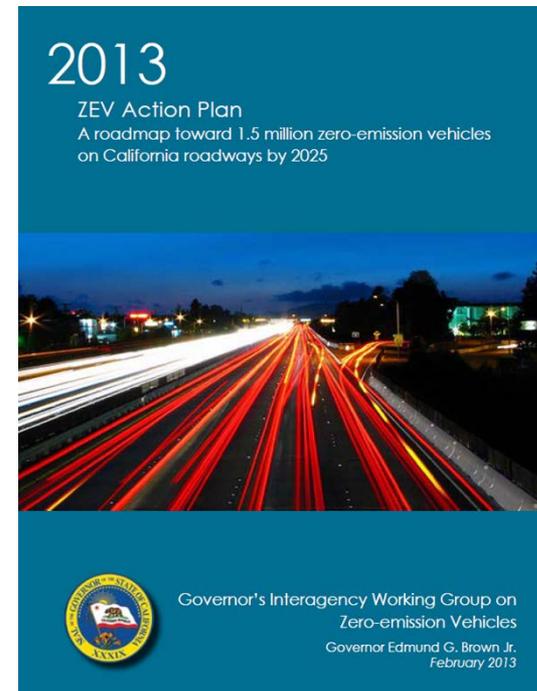


We didn't have . . .

- Direct Current Fast Charging (2011)
- Regional Readiness Plans (2011)

and . . .

The 2013 ZEV Action Plan



Electric Vehicle Infrastructure

2013 ZEV Action Plan EV Infrastructure Related Goals

By 2020: the State's ZEV infrastructure will be able to support up to 1 million vehicles

By 2025: Californians will have easy access to ZEV infrastructure.

Related Action Items

- Develop Statewide PEV Infrastructure Plan
- Support completion of regional PEV plans which include PEV infrastructure plans
- Identify a path to complete the West Coast Green Highway (BC to Mexico)
- Encourage hosting of PEV chargers in multi-unit buildings
- Build awareness among state's major employers about workplace charging benefits
- Expand incentives to encourage California companies to install workplace charging infrastructure



2016 Update to ZEV Action Plan

- Robust analysis to pinpoint areas for funding and the number of chargers needed to support the number of cars
- Data collection to evaluate usage of existing infrastructure
 - Number of charging events
 - Cars to charger ratios
- Getting funds to the intended recipients quickly and simply
 - Vouchers/Rebates
 - Small, very focused solicitations
 - Simple application forms (checklist)
- Capitalizing on projects that have completed preliminary work and have charging sites selected and ready to go
- Leveraging public and private partnerships to get to market sustainability



Commitment to Diversity

The Energy Commission adopted a resolution on April 8, 2015, to firmly commit to:

- Increase participation of women, minority, disabled veteran and LGBT business enterprises in program funding opportunities
- Increase outreach and participation by disadvantaged communities
- Increase diversity in participation at Energy Commission proceedings
- Increase diversity in employment and promotional opportunities

Survey



Electric Vehicle Infrastructure – June 6, 2016 Workshop

Items for discussion include:

- Strategic Planning – Getting sufficient infrastructure by 2020.
 - Energy Commission and partners working together.
 - Getting funding out faster and simpler while supporting the goals.
- Obtaining the data to inform deployment and provide the foundation to perform robust analysis.
- Numbers and locations for chargers at the local level (combining use data with analytical models and travel patterns). Developing validation and ongoing checks and balances.
- Leveraging work by the regional plans.
 - Existing PEV readiness plans
 - Upcoming solicitation
- Addressing the difficult deployments that have great potential to move the market.
 - E-mobility
 - The Fresno case study
 - CalGreen
 - South Bay Cities Council of Governments
- Moving to a sustainable market case. Knowing where everyone fits into the 2020 and 2025 timeline.
 - CalCAP Loan Loss Reserve



Electric Vehicle Infrastructure





Thank you

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