



SOUTHERN CALIFORNIA
EDISON[®]

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***Electrification of Transportation &
Potential Impacts***

Integrated Energy Policy Report

April 14, 2009

Cadillac



Chevrolet



Dodge



Chrysler



Ford



BYD



BMW



Miles



Mercedes



Nissan



Saturn



Mitsubishi



Smart



Tesla



Toyota



Primary Objectives

- **Maximize customer satisfaction as we transition to electricity as a transportation fuel**
- **Maximize differential between the cost of electricity and the cost of fossil fuel to create largest justifiable incentive for consumers**
- **Minimize the impact to all customers**
- **Maximize the carbon reduction potential by electrifying on and off road transportation**
- **Execute research and development to maximize value proposition**

Customer Satisfaction

- **Customer education**
- **Metering to support time of use rates and carbon credit capture**
- **Carbon credits to be passed back to the customer to keep costs as low as possible**
- **Internal utility processes to be able to proactively serve all customers**

Maximize Cost Differential

- **Ensure an incentive for the consumer by maximizing the cost differential between electricity and fossil fuel**
- **While serving all customers – minimize the cost by having common standards and infrastructure across the state**
- **Execute careful analysis of potential cost drivers**

CEC - Research and Development

- **Support research on stationary and secondary use of advanced automotive batteries**
- **Review carefully impact on existing infrastructure especially during the early entry 2010 - 2015**
- **Develop protocols and standards across the state and nationwide**
- **Initiate analysis of the potential to use energy storage (on and off board the vehicle) to support ancillary services**
- **Support development of vehicle to smart grid connectivity**