Electrification of Transportation & Potential Impacts


April 14, 2009
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