PEV Interoperability Workshop

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Aug 15th, 2013
Types of Charging Interoperability

**Vehicle Interoperability**
Coupler Standards (J1772, CHAdeMO, SAE Combo)

**Software Interoperability**
Different types of software can be used with different types of hardware and vice versa.

**Billing Interoperability**
Cash or Credit Card or Subscription or Roaming or Network Interoperability
CPUC Authority

• Regulatory authority over investor-owned utilities
• Decision 10-07-044 determined that charging stations are not utilities. Later enacted into statute by AB 631
• Investor-owned utilities are not allowed to own charging stations
• CPUC has no direct authority related to charging station interoperability standards
CPUC-NRG Settlement

Ratepayer investment required addressing two interoperability issues specifically for this settlement:

Billing Interoperability: required credit card swipes

Vehicle Interoperability: required the use of both CHAdeMO and SAE coupler standards.
General CPUC Energy Division Approach to Standards

• Avoid a ‘California-Only’ standard
• Avoid proprietary standards
• Push National Standards Development by participating in the process, where appropriate
• When there are multiple standards, avoid picking one until there is a market consensus