

PEV Interoperability Workshop

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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