

Roundtable 3: Joint Vehicle Demonstrations and Standards Development

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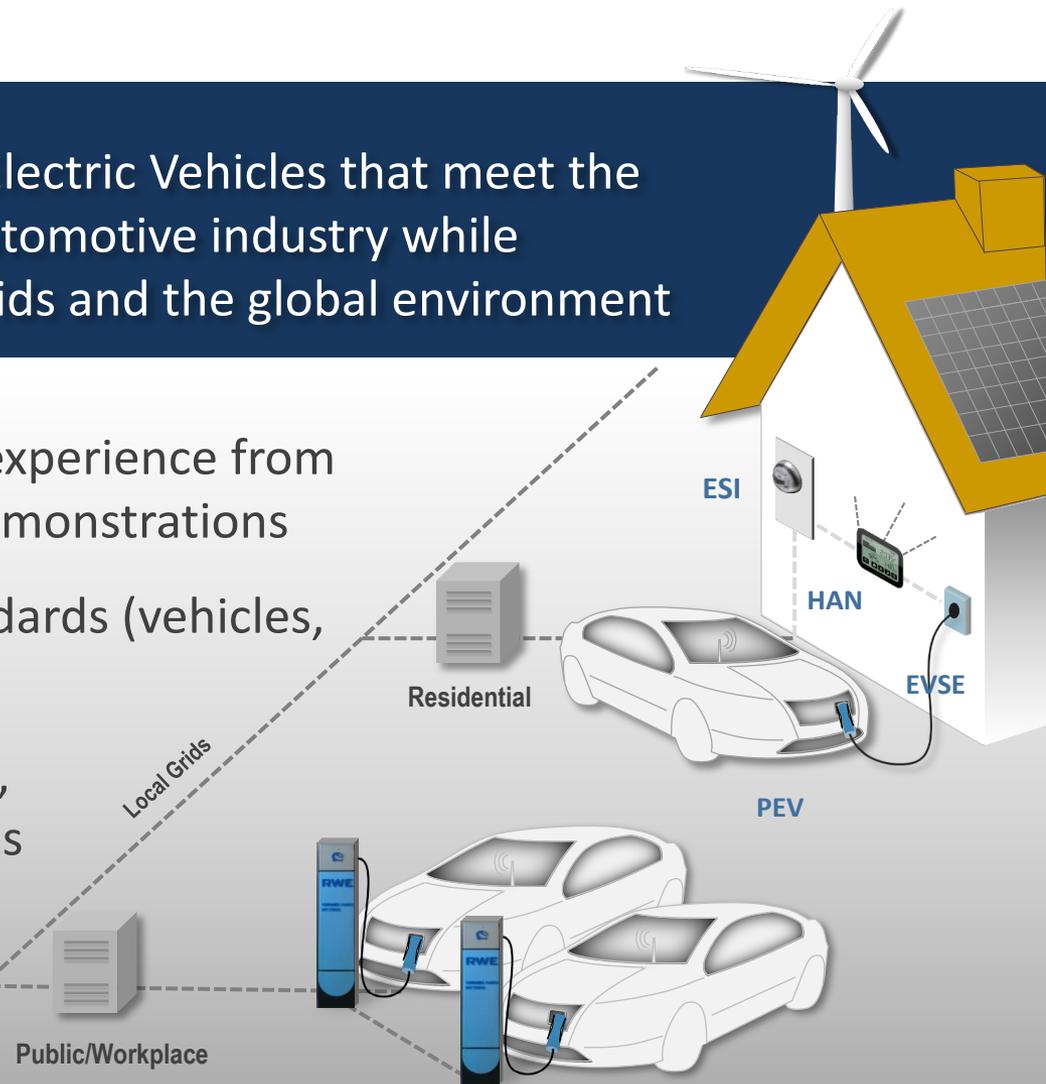
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Learning together ... how to deploy Electric Vehicles that meet the needs of the public and the global automotive industry while minimizing the impact on national grids and the global environment

- Share technical information and experience from vehicle/infrastructure learning demonstrations
- Harmonize global codes and standards (vehicles, connectors, and communication)
- Harmonize vehicle benchmarking, evaluating, and testing procedures



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Data Sharing on Vehicle Demonstration Sites

Scope of Collaboration

Cooperation between U.S. and China on an electric vehicle demonstrations

- Example: U.S. site of Los Angeles and China site of Shanghai

Desire to reach agreement on common objectives, data to be shared, and means of communication



Data Sharing on Vehicle Demonstration Sites

Accomplishments to Date

INL is collecting and analyzing EVs and EVSEs in Los Angeles through the EV Project which as of June 30th includes data from 138 vehicles and 129 home-based chargers, then publishes overview reports

SIACG has collected consumer information from surveys at the EV test center to understand technology acceptance

Shanghai EV demonstration is just getting underway with 8 vehicles and 1 charging facility in the Jia Ding district, but expect to significantly increase to 100 EVs by October with 725 charging poles (EVSEs) by end of 2011 and are planning a second EV center on Chong Ming Island



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Data Sharing on Vehicle Demonstration Sites

Action Items

Shanghai will work to implement the data collection hardware and INL methodology to their collection efforts

Ensure that the data fields (definitions, how they are collected) are similar so they can be analyzed and compared to each other

Follow-up between INL (Francfort) and CAERI (Zhang) on data analysis of national demonstration programs including data parameters

Determine a time/date to initiate data exchange



Codes and Standards

Scope of Collaboration

Need for continuing collaboration on standards

- DOE support of SDOs (U.S.)
- CATARC (China)



Codes and Standards

Accomplishments to Date

Joint agreement to map US and China standards, understand how they relate, and identify gaps that need to be addressed

Differences between the GB and SAE standards for AC Charging have been identified and were discussed

The GB standard process including its timeline was explained; standards are recommended practice until included in type approval requirements



Codes and Standards

Action Items

Joint US-China Mapping effort and support communication and information sharing (listing of EV related standards compiled in a database)

Facilitate a method to share draft standards as they are being developed where feasible

Explore linkages with APEC efforts on standards



Codes and Standards

Action Items (continued)

A list (topics) of the 15 GB standards pending final approval will be shared

Potential changes to EMC as related to EVs (in particular as applied to wireless charging) will be investigated and summarized



Vehicle Testing Procedures

Scope of Collaboration

Recently added topic to the scope

Action Items

ANL, INL, and CAERI will exchange information and methodology to further understand, and harmonize where possible, the EV benchmarking, evaluation, and testing procedures



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Vehicle Demonstrations and Standards Development

Additional Action Items

Explore the possibility for an E-Mobility Plan between US and China

Coordinate smaller meetings or discussions to address the specific details of the three topic areas

Event Calendar to coordinate collaborative workshops



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