

EV Everywhere Grand Challenge -- Battery Workshop

Thursday, July 26, 2012 – Doubletree O’Hare, Chicago, IL

Event Objective: *DOE aims to obtain stakeholder input on the energy storage goals of the EV Everywhere Grand Challenge. This input will direct the aggressive next-generation technology development necessary to enable U.S. companies to be the first in the world to produce plug-in electric vehicles (PEVs) that are as affordable and convenient for the average American family as today’s gasoline-powered vehicles within the next 10 years.*

- 8:00-8:30 AM CONTINENTAL BREAKFAST (in registration area)
- 8:30-8:35 AM CALL TO ORDER
Mr. Patrick Davis, DOE EERE Vehicle Technologies Program
- 8:35-8:45 AM WELCOMING REMARKS
Mr. David Sandalow, Under Secretary of Energy (acting) and Assistant Secretary for Policy and International Affairs
- 8:45-8:55 AM SETTING THE STAGE FOR THE *EV EVERYWHERE* GRAND CHALLENGE
Dr. David Danielson, Assistant Secretary of Energy, EERE
- 8:55-9:05 AM RESULTS FROM INITIAL FRAMING WORKSHOP
Patrick Davis, DOE EERE Vehicle Technologies Program
- 9:05-9:25 AM THE *EV EVERYWHERE* CHALLENGE – TARGET SETTING
Jake Ward, DOE EERE Vehicle Technologies Program
- 9:25-9:50 AM EV BATTERY TECHNOLOGY—CURRENT STATUS & COST CHALLENGES
David Howell, DOE EERE Vehicle Technologies Program
- 9:50-10:05 AM ARPA-E’s BEEST PORTFOLIO—CHALLENGES & OPPORTUNITIES
John Lemmon, DOE ARPA-E Program
- 10:05-10:10 AM GUIDELINES AND CHARGE TO BREAKOUT SESSIONS
David Howell, DOE EERE Vehicle Technologies Program
- 10:10-10:30 AM BREAK (move into breakout rooms)

10:30-12:00 PM	<p>BREAKOUT SESSION #1 – <i>EV EVERYWHERE</i> SCOPE & TECHNICAL TARGETS (4 breakout groups)</p> <ul style="list-style-type: none"> • Next-Generation Li-Ion Batteries • Beyond Li-Ion Batteries • Materials Processing and Manufacturing • Pack Design and Optimization - <i>Introductions and discussion of current state-of-art of the breakout group’s focus area.</i> - <i>Are the initially posed EV-Everywhere battery performance and cost targets achievable?</i> - <i>What role can the breakout group’s focus area play on achieving these targets? What are the major pathways to cost reduction? What are the major barriers?</i>
12:00-12:30 PM	BREAK (pick up lunch for WORKING LUNCH in Breakout Session #2)
12:30-1:50 PM	<p>BREAKOUT SESSION #2 – IDENTIFY NEEDS / GAME-CHANGING IDEAS</p> <ul style="list-style-type: none"> - <i>What are the specific highest-impact critical technology breakthroughs that are needed to achieve the EV-Everywhere Challenge?</i> - <i>Are there “out of the box”, risky, or other approaches that should be considered?</i> - <i>Each participant is encouraged to informally endorse or propose a single research idea or concept that could be applied to EV Everywhere</i>
1:50-2:20 PM	INTERIM REPORTING OUT FROM BREAKOUT GROUPS
2:20-2:30 PM	BREAK
2:30-3:40 PM	<p>BREAKOUT SESSION #3 – DEVELOP ACTION PLANS & PREPARE SLIDES OF MAJOR FINDINGS</p> <ul style="list-style-type: none"> - <i>What role can the breakout group’s focus area play toward enabling the success of the technologies being discussed by the other groups?</i> - <i>What advances from the other technology areas will enable success in your focus area?</i>
3:40-3:50 PM	REASSEMBLE FOR FINAL REPORTING OUT FROM BREAKOUT GROUPS
3:50-4:50 PM	<p>BREAKOUT GROUPS REPORTS</p> <ul style="list-style-type: none"> • Next-Generation Li-Ion Batteries • Beyond Li-Ion Batteries • Materials Processing and Manufacturing • Pack Design and Optimization
4:50-5:00 PM	WRAP-UP / CLOSING REMARKS
5:00 PM	ADJOURN