

# *EV Everywhere* Grand Challenge

## Charge to the Breakout Groups



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Breakout Group	Room	Facilitator	Color Code
Next-Generation Li-Ion Batteries	<b>Othello Room</b> mezzanine	Jeff Chamberlain (ANL)	green
Beyond Li-Ion Batteries	<b>Winchester Room</b> mezzanine	Frank McClarnon (LBNL)	blue
Manufacturing and Processing	<b>Medallion Room</b> Main floor	Claus Daniel (ORNL)	yellow
Pack Design and Optimization	<b>Signature III room</b> main floor	Ahmad Pesaran (NREL)	red

## SESSION #1

### ***EV EVERYWHERE* SCOPE & TECHNICAL TARGETS**

- *Discussion of current state-of-art of the breakout group's focus area.*
- *Are the proposed EV-Everywhere battery performance and cost targets achievable?*
- *What role can the breakout group's focus area play on achieving these targets?*
- *What are the major barriers?*
- *What are the major pathways to cost reduction?*

## **BREAKOUT SESSION #2**

### **IDENTIFY NEEDS / GAME-CHANGING IDEAS**

- *What are the specific highest-impact critical technology breakthroughs in your focus area that are needed to achieve the EV-Everywhere Challenge?*
- *Are there “out of the box”, very high risk, or other approaches that should be considered?*
- *Each participant is encouraged to informally endorse or propose a single research idea or concept that could be applied to EV Everywhere*

## **BREAKOUT SESSION #3**

### **CROSSCUTTING IMPACTS & PATH FORWARD**

- *What role can the breakout group's focus area play toward enabling the success of the technologies being discussed by the other groups?*
- *What advances are needed from the other technology areas to enable success in your focus area?*
- *Discussion of Action Plans and Next Steps*

- Identify the **role and the impact** that each breakout group's focus area can play toward achieving the EV Everywhere Battery Goals
- Identify “**Out of the Box**” ideas that have the potential to achieve the EV Everywhere Battery Goals
- Identify **Key Next Steps** in each area and for EV Everywhere.