



Charge to Breakout Sessions

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BREAKOUT GROUPS

Traction Drive System

Power Electronics and Thermal Management

Electric Motors and Critical Materials

BREAKOUT SESSION #1

EV EVERYWHERE SCOPE & TECHNICAL TARGETS

- *Discussion of current state-of-art of the breakout group's focus area.*
- *Are the initially posed EV-Everywhere electric drive system 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 AND GAME-CHANGING IDEAS

- *What are the specific highest-impact critical technology breakthroughs that are needed to achieve the EV Everywhere Challenge goals?*
- *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

DEVELOP ACTION PLANS & PATH FORWARD

- *What can your technology area breakout group do to enable success for the other focus areas?*
- *What advances are needed from the other technology areas to enable success in your focus area?*
- *Discussion of Action Plans and Next Steps*

DESIRED OUTCOMES

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

Traction Drive System

Othello (Mezzanine)

Power Electronics and Thermal Management

Winchester (Mezzanine)

Electric Motors and Critical Materials

Medallion (Main)