

Active Learning Exercise (Think-Pair-Share)

Course: Materials for Energy Storage

Topic: Introduction to Batteries

Introduction to exercise:

Batteries tend to be designed for one of three possible scenarios:

1. Small Size + Long Runtime = Limited Cycle Life
2. High Durability = Big & Bulky
3. High Energy Density + Long Durability = Very Expensive

Question:

What battery applications/usages would utilize each of these scenarios?

Think (~1 min.): Each person should try to identify as many applications for each scenario as possible.

Pair (~1 min.): Work with a partner and try to generate a list of as many applications for each scenario as possible. Ask groups to see if they can identify a battery application for each scenario that the other groups will not think of.

Share(~2 min.): Identify the group with the greatest number of applications. Ask all groups to list their applications identified for each scenario. Identify groups with unique applications that others had not thought of.