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Investigation of Novel Clad Busbar Material in Lithium-Ion Battery Pack

A novel clad material is being tested as a busbar for battery packs. Due to improved thermal and conductive properties touted by the manufacturer, its effect on thermal performance and battery degradation is being studied. Packs with the new material have been cycled alongside packs with nickel busbars and compared in terms of temperature and degradation metrics (e.g. capacity and internal resistance). Packs have been modeled in COMSOL to examine the generation of heat within the pack.