

LITHIUM-ION BATTERY RECYCLING PRIZE



U.S. DEPARTMENT OF ENERGY

Team Name: EEDD

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Submission Title: Battery Self Cooling for Safe Recycling

Submission Track: Track 3: Safe Storage and Transportation

Abstract: (<100 Word)

Safe and cost-effective storage and transportation of Li-ion batteries are important for recycling yet difficult. This proposal aims to render LIBs electrochemically inactive while keeping them cool through low-cost self-cooling. Remaining electric energy from recycled batteries is recovered to cool the batteries and reduce their state of charge (SOC). The synergized effects of low temperature and low SOC would prevent battery thermal runaway during storage or transportation.

Lithium-Ion Battery Recycling Prize

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