

LITHIUM-ION BATTERY RECYCLING PRIZE



U.S. DEPARTMENT OF ENERGY

Team Name: Store Packs Umicore

A Public Document

Primary Submitter: Mark Caffarey, President, Umicore USA Inc.

City and State: Raleigh, North Carolina

Member Names:

Mark Caffarey: President, Umicore USA (Mark.Caffarey@am.umicore.com)

Casey Westhoff: US Government Affairs Manager, Umicore USA (Casey.Westhoff@am.umicore.com)

Nathan Laughlin: Operations Manager, Phoenix Group Metals (Nathan.Laughlin@pgm-corp.com)

Bryan Shultz: Vice President of Engineering, Spiers New Technologies (Bryan.Schultz@spiersnt.com)

Submission Title: Development of Four US Collection and Storage Sites for Li Ion Automotive Battery Packs

Submission Track: Track 3: Safe or Inert Storage and Transportation

Abstract: (<100 Word)

Umicore's Li-ion battery recycling process is the only process that allows for battery packs to be dismantled and tested for second use prior to recovering the material value. Umicore is partnering with Phoenix Group Metals and Spiers New Technology to set up a new supply chain of end of life battery packs, modules, and cells. Phoenix Group Metals would become certified to store these batteries in multiple locations across the United States. They would then partner with Spiers New Technology to test the battery packs for second use. Finally, Umicore would recycle the batteries that only have material value.



Lithium-Ion Battery Recycling Prize

*Supported by the U.S. Department of Energy Vehicle Technologies Office and Advanced Manufacturing Office;
Administered by the National Renewable Energy Laboratory*