LITHIUM-ION BATTERY RECYCLING PRIZE



U.S. DEPARTMENT OF ENERGY

Team Name: NUMiX Materials, Inc

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Primary Submitter: Catherine (Katie) Kollhoff

City and State: Chicago, Illinois

Member Names: Ian Wiese, Matthew Heise, Laurelle Banta

Submission Title: Cobalt Recovery from Li-lon Batteries: Turning Cost Drivers into Value Drivers

Submission Track: Other Ideas

Abstract: (<100 Word)

Two issues hamper lithium-ion battery recycling: socially, there isn't a clear path to recycle batteries at end-of-life; and technically, there is a challenge with separating spent cobalt from spent solution. We propose a reward system to generate spent battery input to the market as well as a chemical separation technology to generate processor pull for cobalt materials from batteries to achieve 90% recycling of all lithium ion batteries.