

LITHIUM-ION BATTERY RECYCLING PRIZE



U.S. DEPARTMENT OF ENERGY

Li-ion Identification For the Next Generation of Metal Recycling (For Reviewers and Administrator)

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Submission Title: Li-ion Identification

Submission Track: Track 2: Separation and Sorting

This Sorting Prize will engineer and automate a reliable EOL-LIB sorting approach using analytical inputs and artificial intelligence. OnTo's sorting technology will improve the safety and cost for LIB disposition. LIB mixing increases process costs for smelting, hydrometallurgy, and direct recycling methods. Although smelters indicate they do not require sorting, it is important information to know in order for them to control the slag and melt chemistries to optimize cobalt recovery. Even with standards and labels, independent sorting is indispensable. Without it, recyclers are exposed to unnecessary risk and potential losses due to safety and low-quality material.

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