

LITHIUM-ION BATTERY RECYCLING PRIZE



U.S. DEPARTMENT OF ENERGY

Team Name:	
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Submission Title:	Li-ion Identification for the Next Generation of Battery Recycling
Submission Track:	Separation and Sorting

A Public Document



Concept

- Sorting of lithium-ion batteries.
- Rough identification of chemistries.
- Granular identification of chemistries.
- Low-cost methodology
- Integration with safety procedures.
- Applicable to both central and distributed locations.

Approach

- The technical approach uses patented and proprietary methods to identify battery chemistry.
- **Low-cost chemical characterization with environmentally friendly processes.**
- **A successful Prize will accelerate the commercialization of federally funded technical development through SBIR awards to OnTo Technology.**

Potential Impact

- Improve the safety and quality of materials present in the recycling stream.
- Improve the value of materials present in the recycling stream.
- Provides the basis for auto intelligence and block-chain techniques applied to critical material management.
- Provide the technical basis for infrastructure critical for the next generation of safe, efficient lithium-ion battery recycling.