

OnTo Technology, LLC Cathode healing of e-scrap batteries

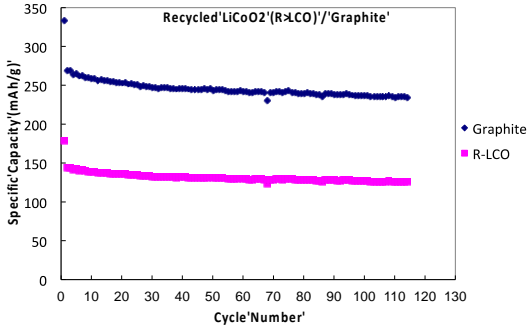
Principal Investigator:	Steve Sloop
Key Partners:	OnTo Technology LLC Proposed National Laboratory for TEA: NREL US Battery Manufacturer: Saft America

3rd Party Proof of manufacturing ability:
Cycle Life of Recycled LCO in full cell with new graphite

- Lithium Cobalt Oxide
 - Maintains >140mAh/g in LCO/Graphite test cell.
 - Material sourced from 3C.



Easy coating of 100% R-LCO produced from patented cathode healing



These data points show consecutive charge and discharge capacity in the graph. The first data point is for charge cycle.

Proposed Objectives:

- The team will utilize E-scrap batteries as feedstock for producing direct recycled CAM.
- The direct recycled CAM will be used for manufacturing qualification tests with a US Battery Manufacturer

What will this Project Do? Please Provide a Short Summary:

- This project will utilize recycled material in manufacturing new cells in a manufacturing environment.
- The project will deliver direct recycled material from a US supply chain utilizing a defense and civilian source.
- The team will perform techno-economic modeling to show how direct recycling of CAM will help make LIBs economically and environmentally sustainable.

DEI Goals/Tasks:

- The Prime UR Key Personnel include STEM Women, the potential Battery Manufacturer and material supplier includes Disabled Veterans.
- The project improves the trajectory for Clean Air in DAR communities by improving the cost and safety of the logistical supply chain of the future.
- The project performs Workforce development through development of internships.

Locations of Work:

HQ Location Bend, OR	Cockeysville, MD	National Laboratory: NREL			
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