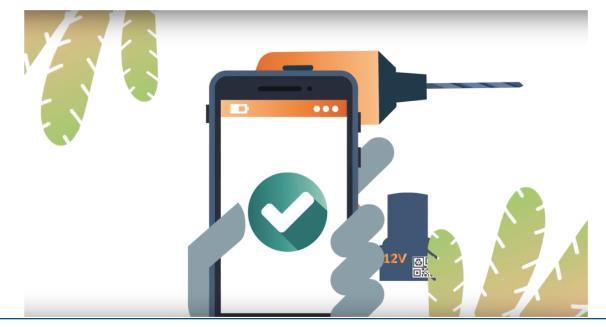
LITHIUM-ION BATTERY RECYCLING PRIZE



Team Name:	
Primary Submitter Name:	Matthew Davidson
City and State:	Seattle, WA
Member Names (including partners and affiliates):	Rohi Sukhia, Mark Caffarey, Joe Marion, Yorke Rhodes, John Greaves, Jason Linnel, Steve Christiansen, Scott Wiggins, Dr. David Wagger, Dr. Ron Lembke, Lauren Roman, Carrie George
Submission Title:	Reward to Recycle – Closing the Loop on Portable Lithium Ion Batteries
Submission Track:	5

A Public Document

J.S. DEPARTMENT OF ENERGY



Concept

 Team Portables proposes a demonstration whereby portable lithium ion batteries and the products they power will be given a digital identity to support a consumer awareness and reward system to capture > 90% of portable lithium ion batteries produced for responsible recovery at end of life.

Approach

- Objective 1: Develop and implement a standardized Provenance and Compliance Platform for electronics containing LIBs and for free-standing LIBs such as those used for e-bikes and much more.
- Objective 2: Enhance the traceability of material flows throughout the LIB product lifecycle by working with OEMs to establish a labeling standard (AIDC) for portable LIBs and LIB powered products.
- Objective 3: Create a digital reward that would help close the loop of spent LIBs.
- Objective 4: Implement a pilot project on the Everledger Platform with OBADA protocols for open participation to support marketplace creation for spent LIBs.
- Objective 5: Test B2B and B2C promotional avenues/adoption motivations for a full scale program.

Potential Impact

- Consumers become aware and motivated to recycle LIBs
- Number of LIBs and LIB products captured and recycled significantly increases
- Critical metals for LIBs are secured
- Working model for circular economy for portable LIBs is demonstrated