

LITHIUM-ION BATTERY RECYCLING PRIZE



U.S. DEPARTMENT OF ENERGY

Team Name: Tartan Battery Network

A Public Document

Primary Submitter: Wei Wu

City and State: 5000 Forbes Avenue, Pittsburgh, PA

Member Names: Jay Whitacre (Carnegie Mellon University), Wei Wu (Carnegie Mellon University)

Submission Title: Intelligent Battery Recycling Platform

Submission Track: Collection

Abstract: (<100 Word)

We will create a cloud-based platform to enable a new paradigm of collection, assessment, and re-distribution of previously used lithium-ion batteries. Our system will provide cell and materials evaluation data that will be available for those parties interested in sourcing used cells either for second use battery packs or for materials recovery and recycling. The platform solution includes the integration of a distributed modular rapid cell assessment (MRCA) system with a centralized database of key cell and materials information to track battery cell type, history, state of health, and ownership.

Lithium-Ion Battery Recycling Prize

*Supported by the U.S. Department of Energy Vehicle Technologies Office and Advanced Manufacturing Office;
Administered by the National Renewable Energy Laboratory*