Battery Global Traceability Standards Committee J3327

Overview

The SAE Battery Global Traceability Committee will develop standards for common battery data and security to be shared with various global stakeholder groups enabling sustainability and compliance for the global battery supply and value chain. This includes standards for traceability data on the origin/provenance of critical battery minerals; battery and performance data to optimize battery lifecycles, improve safety, ensure responsible use, remanufacturing/repurposing, recycling; and accounting for the sustainability and interoperability throughout. This committee will work on an interoperable (international) standard for battery tracing, building upon the works of prior global projects issued with minimal requirements and securing the option to enrich following standards, based on necessity.

Rationale: Enabling a Traceable Battery Value Chain

The global transition towards electric mobility and Battery energy storage systems has intensified the need for transparent and responsible Battery supply chain documentation. The SAE Battery Global Traceability Committee recognizes this imperative. It has developed this standard to facilitate putting important Battery information in a digital record. This allows value chain stakeholders to make informed decisions when it comes to sourcing and manufacturing. This also supports recycling and re-use of important mined materials.

This standard establishes a set of industry-defined practices for a Battery traceability record that accomplish the following objectives:

1. To provide a consistent, shared format and vocabulary for identifying and recording key elements of traceability, including:
    a. Battery information
    b. Applicable Critical Minerals contained within the Battery
    c. Battery Components contained within the Battery
    d. Economic Operator/Qualified Manufacturer and reliable Chain of Custody information, i.e. origination of materials, components and products along the value chain
2. Leverage existing standardization and specifications, supporting one common global practice.
3. Create efficiency throughout the global Battery supply chain and support safer dismantling, re-use, remanufacturing, and recycling of Batteries.
4. Provide models for Battery data management.

NSVRP note: The SAE Battery Global Traceability Standards Committee, along with other SAE Battery Standards Committees plays an important role in helping to support the efforts to advance the EV ecosystem. Please visit the SAE website to review the list of active committees, and consider joining and participating in these efforts.