



South ossetia battery testing

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We offer research, development, and evaluation for a range of battery systems including lithium ion, advanced lead, flow, ultracapacitors, grid storage, and battery management systems. Our specialized facilities are equipped with state-of-the-art exhaust filtration and chemical scrubbers to handle battery testing. SwRI is fully compliant with all government, industry, safety and environmental regulations.

New technologies are advancing the energy storage capacity of batteries, cells and packs that power handheld devices, electric vehicles and grid-scale energy storage systems. The Energy Storage Technology Center(R) (ESTC) at Southwest Research Institute is an internationally recognized laboratory for battery research, development and testing in accordance with government and industry standards. In addition to battery safety and abuse testing, SwRI's ESTC features technology experts from diverse scientific fields to support R& D and evaluation of energy storage systems.

We offer turnkey battery safety testing and research services for battery cell, module and pack levels. SwRI can perform all battery mechanical, electrical, thermal and performance testing in-house at a single location. Analysis and testing include, among other services:

Battery safety testing is performed under an ISO 9001-certified quality management system, with most tests covered under an ISO 17025 testing laboratory accreditation. Disposal of any hazardous waste follows ISO 14001.

The ESTC performs rigorous battery abuse testing and analyzes how batteries, cells and packs respond. This allows manufacturers and consumers to better understand how, when and why failure can occur.

We have dedicated engineering staff capable of designing custom battery safety testing plans, enclosures and stands. In addition to standardized battery safety testing, we commonly create custom testing plans and testing rigs.

Batteries are used in everything from electric vehicles, power tools, electronics and grid-scale energy storage systems. The battery testing and research laboratories at Southwest Research Institute help government and industry develop new energy storage technologies and ensure the quality and safety of current and future battery technology.

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