

# Daily inspection process of energy storage equipment

What should NREL consider when testing energy storage systems?

Photo by Owen Roberts, NREL Considerations for energy storage system testing include the following. If cost-justified by a large purchase, consider qualification testing of battery systems. Include test conditions in specifications for battery O&M diagnostics and testing.

What are the standards for stationary energy storage systems in India?

The Bureau of Indian standards governs testing protocols for stationary energy storage systems for the country of India. As examples of standards, IS-1651 provides information on lead-acid cells and batteries using tubular positive plates and IS-1652 is for lead-acid cells and batteries with flat positive plates.

Where can I find performance and testing protocols for stationary energy storage systems?

The United States has several sources for performance and testing protocols on stationary energy storage systems. This research focuses on the protocols established by National Labs (Sandia National Laboratories and PNNL being two key labs in this area) and the Institute of Electrical and Electronics Engineers (IEEE).

What are some useful reports about energy storage testing?

Below is a non-exhaustive list of valuable reports that the working group has relied on when becoming familiar with storage testing. "Electric energy storage - future storage demand" by International Energy Agency (IEA) Annex ECES 26, 2015, C. Doetsch, B. Droste-Franke, G. Mulder, Y. Scholz, M. Perrin.

Can a stationary energy storage system adapt to other energy storage systems?

In regions where there is an absence of extensive or relevant protocols for stationary energy storage systems, there may be the ability to adapt or expand on protocols for other energy storage systems that are available.

Does IEC have a standard for stationary energy storage?

IEC, on the contrary, develops many standards specifically for stationary application of energy storages. Commercial product quality evaluation companies are also active in defining standards for storage systems and batteries, especially Underwriters Laboratory (UL).



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