



# Energy storage power station project testing plan

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).

Which components of a battery energy storage system should be factory tested?

Ideally, the power electronic equipment, i.e., inverter, battery management system (BMS), site management system (SMS) and energy storage component (e.g., battery) will be factory tested together by the vendors.

Figure 2. Elements of a battery energy storage system

Can FEMP assess battery energy storage system performance?

This report describes development of an effort to assess Battery Energy Storage System (BESS) performance that the U.S. Department of Energy (DOE) Federal Energy Management Program (FEMP) and others can employ to evaluate performance of deployed BESS or solar photovoltaic (PV) +BESS systems.

Do energy storage systems need a safety assessment?

Safety Assessment: As more energy storage systems have become operational, new safety features have been mandated through various codes and standards, professional organizations, and learned best practices. The design and commissioning teams need to stay current so that required safety assessments can be performed during commissioning.

What is the battery energy storage system guidebook?

A public benefit corporation, NYSERDA has been advancing energy solutions and working to protect the environment since 1975. The Battery Energy Storage System Guidebook contains information, tools, and step-by-step instructions to support local governments managing battery energy storage system development in their communities.

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.



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