

SolarTech Power Solutions

Energy Storage Project Functional Compliance Plan



Overview

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 regulatory framework for energy storage?

The regulatory framework for energy storage is both nascent and dynamic. At the federal and state levels, a range of emerging regulations and policies are likely to spur increased deployment of energy storage.

What are energy storage policies?

Policies also exist to measure and express energy storage technology performance and reliability, as well as establish a basis for what is and is not considered safe. All anyone having a financial interest in any project using energy storage technology needs to BPG 8: Codes & Standards Ch. 1: Overview.

What is a typical energy storage deployment?

A typical energy storage deployment will consist of multiple project phases, including (1) planning (project initiation, development, and design activities), (2) procurement, (3) construction, (4) acceptance testing (i.e., commissioning), (5) operations and maintenance, and (6) decommissioning.

What is the regulatory and compliance landscape for battery energy storage?

The regulatory and compliance landscape for battery energy storage is complex and varies significantly across jurisdictions, types of systems and the applications they are used in. Technological innovation, as well as new challenges with interoperability and system-level integration, can also amplify

risks.

What's new in energy storage safety?

Since the publication of the first Energy Storage Safety Strategic Plan in 2014, there have been introductions of new technologies, new use cases, and new codes, standards, regulations, and testing methods. Additionally, failures in deployed energy storage systems (ESS) have led to new emergency response best practices.

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