

# Current status of energy storage standards

Are energy storage systems compliant?

Energy storage systems continue to be a rapidly evolving industry. Thus, the key to safe and up-to-date compliance requirements involves the adoption and application of codes and standards in addition to the development or writing of codes and standards.

Does industry need standards for energy storage?

As cited in the DOE OE ES Program Plan, "Industry requires specifications of standards for characterizing the performance of energy storage under grid conditions and for modeling behavior. Discussions with industry professionals indicate a significant need for standards ..." [1,p. 30].

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.

How are energy storage systems regulated?

In some contexts, for energy storage systems, compliance regulations take the form of a state adopting a code, which then references and requires testing and listing or adherence to a standard. Some cities, counties, and special administrative districts (e.g., school or sewer districts) also adopt locally amended codes for their environments.

What factors should be considered when selecting energy storage systems?

It highlights the importance of considering multiple factors, including technical performance, economic viability, scalability, and system integration, in selecting ESTs. The need for continued research and development, policy support, and collaboration between energy stakeholders is emphasized to drive further advancements in energy storage.

Can energy storage be used as a temporary source of power?

However, energy storage is increasingly being used in new applications such as support for EV charging stations and home back-up systems. Additionally, many jurisdictions are seeing increasing use of EVs and mobile energy storage systems which are moved around to be used as a temporary source of power.

The Department of Energy Office of Electricity Delivery and Energy Reliability Energy Storage Program would like to acknowledge the external advisory board that contributed to the topic ...

More details on how codes and standards are developed and adopted and compliance with them is documented

and verified are available in the following document and at the links to the three ...

**Abstract** This report provides an overview and status update on U.S. state renewables portfolio standards (RPS) and has been expanded from previous editions to also cover 100% clean ...

This paper comprehensively reviews electrochemical energy storage-related standards established by international standardization organizations and conducts an in-depth analysis of ...

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The article also gives several examples of industry efforts to update or create new standards to remove gaps in energy storage C& S and to accommodate new and emerging energy storage ...

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On March 13, 2025, the California Public Utilities Commission (CPUC) modified General Order (GO) 167 to establish new standards for the maintenance and operation of battery energy ...

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