



New Energy Storage Power Supply Safety Standards

Are battery energy storage systems safe?

WASHINGTON, D.C., March 28, 2025 -- Today, the American Clean Power Association (ACP) released a comprehensive framework to ensure the safety of battery energy storage systems (BESS) in every community across the United States, informed by a new assessment of previous fire incidents at BESS facilities.

What is an energy storage system (ESS)?

Covers an energy storage system (ESS) that is intended to receive and store energy in some form so that the ESS can provide electrical energy to loads or to the local/area electric power system (EPS) when needed. Electrochemical, chemical, mechanical, and thermal ESS are covered by this Standard.

What does UL 9540 mean for energy storage systems & equipment?

The third edition of the UL 9540 Standard for Safety for Energy Storage Systems and Equipment, published in April 2023, introduces replacements, revisions and additions to the requirements for system deployment.

Are energy storage facilities safe?

"The energy storage industry is committed to a proactive and tireless approach to safety and reliability. At its core, energy storage facilities are critical infrastructure designed to protect people from power outages," said ACP VP of Energy Storage Noah Roberts.

Do I need a sprinkler system for a battery ESS?

A: Testing has shown that water is the most effective agent for cooling for a battery ESS. For this reason, a sprinkler system designed in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems, is required by NFPA 855, Standard for the Installation of Energy Storage Systems.

Why do we need energy storage systems?

Growing concerns about the use of fossil fuels and greater demand for a cleaner, more efficient, and more resilient energy grid has led to the use of energy storage systems (ESS), and that use has increased substantially over the past decade.

NFPA 110 - The NFPA standard for emergency and standby power systems. The purpose of this standard is to provide requirements for the proper installation and maintenance of emergency ...

Energy storage systems are essential for advancing renewable energy adoption, but they must be managed safely to prevent hazards such as fires. Learn about the safety risks associated with ...

Recently, the State Administration for Market Regulation (National Standardization Administration) released a batch of proposed standards for public notice. Three of them are related to energy ...



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Introduction This white paper provides an informational guide to the United States Codes and Standards regarding Energy Storage Systems (ESS), including battery storage systems for ...

Delve into the world of emergency power supply and understand the crucial importance of maintaining uptime for critical applications. As we explore the limitations of traditional diesel ...

In the wake of the recent fire at Vistra Corporation's Moss Landing Power Plant and Energy Storage Facility, the California Public Utilities Commission has proposed new ...

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