

# Fire energy storage container specification requirements

What is battery energy storage fire prevention & mitigation?

In 2019, EPRI began the Battery Energy Storage Fire Prevention and Mitigation - Phase I research project, convened a group of experts, and conducted a series of energy storage site surveys and industry workshops to identify critical research and development (R&D) needs regarding battery safety.

What is an energy storage roadmap?

This roadmap provides necessary information to support owners, operators, and developers of energy storage in proactively designing, building, operating, and maintaining these systems to minimize fire risk and ensure the safety of the public, operators, and environment.

Are battery energy storage systems safe?

Owners of energy storage need to be sure that they can deploy systems safely. Over a recent 18-month period ending in early 2020, over two dozen large-scale battery energy storage sites around the world had experienced failures that resulted in destructive fires. In total, more than 180 MWh were involved in the fires.

Does NFPA 855 have ESS provisions for Section 1207?

ements, along with references to specific sections in NFPA 855. The International Fire Code (IFC) 2024 edition has its own ESS provisions for Section 1207, which are largely harmonized with those in the NFPA 855 2023 edition. This will change with the 2027 IFC, which will follow th

This guide explores essential specifications for energy storage container fire protection systems, offering actionable insights for project developers and facility managers.

Fire Risks of Energy Storage Containers Lithium batteries (e.g., LiFePO<sub>4</sub>, NMC) may experience thermal runaway under conditions such as overcharging, short-circuiting, mechanical ...

Thus, fire protection systems for energy storage containers must possess capabilities for rapid suppression, sustained cooling, and prevention of re-ignition. The design of these systems ...

However, many designers and installers, especially those new to energy storage systems, are unfamiliar with the fire and building codes pertaining to battery installations. Another code-making body is the ...

The scope of this document covers the fire safety aspects of lithium-ion (Li-ion) batteries and Energy Storage Systems (ESS) in industrial and commercial applications with the primary focus ...

Energy storage is a "force multiplier" for carbon-free energy. It enables the integration of more solar, wind, and distributed energy resources and increases existing plants' capacity factor to align ...

Standard for the Installation of Stationary Energy Storage Systems-- now in its recently published third edition (2026)--provides mandatory requirements and explanatory text on energy ...

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The 2018 International Fire Code, Section 608, covers Fire Codes for Energy Storage Systems, specifically Stationary Storage Battery Systems (with permission of the International Code ...

What is an energy storage roadmap? re the safety of the public, operators, and envi What are non-residential storage requirements? 1 requirements come into play (NFPA 855 Chapters 4-9). Fire ...

The investigations described will identify, assess, and address battery storage fire safety issues in order to help avoid safety incidents and loss of property, which have become major ...

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