



National Standard for Fire Protection of Energy Storage Cabinets





Overview

NFPA 855 is the leading fire-safety standard for stationary energy-storage systems. It is increasingly being adopted in model fire codes and by authorities having jurisdiction (AHJs), making early compliance important for approvals, insurance, and market access. NFPA is keeping pace with the surge in energy storage and solar technology by undertaking initiatives including training, standards development, and research so that various stakeholders can safely embrace renewable energy sources and respond if potential new hazards arise. NFPA Standards that are largely harmonized with those in the NFPA 855 2023 edition. The Task Groups comprise fire safety professionals, industry experts, and other interested parties—they engage. An ESS is a device or group of devices assembled together, capable of storing energy in order to supply electrical energy at a later time. Battery ESS are the most common type of new installation and are the focus of this fact sheet. However, fires at some BESS installations have caused concern in communities considering BESS as a.



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NFPA 855 Standard Development

This standard provides the minimum requirements for mitigating the hazards associated with ESS.

Energy Storage Cabinet Fire Protection Standards: What You Need to ...

In 2023 alone, lithium-ion battery fires caused over \$2.1 billion in damages globally. That's why understanding energy storage cabinet fire protection standards isn't just regulatory red ...



[NFPA 855: Improving Energy Storage System Safety](#)

While NFPA 855 is a standard and not a code, its provisions are enforced by NFPA 1, Fire Code, in which Chapter 52 outlines requirements, along with references to specific sections in NFPA 855.

[Understanding NFPA 855: Fire Protection for Energy Storage](#)

The purpose of NFPA 855 is to establish clear and consistent fire safety guidelines for energy storage systems, which include both stationary and mobile systems that store electrical energy.



Battery Energy Storage Systems: Main Considerations for Safe

National Fire Protection Association (NFPA) Standard 855: Standards detailing the requirements for mitigating the hazards associated with energy storage systems (ESS).

Energy Storage Systems (ESS) and Solar Safety

NFPA is undertaking initiatives including training, standards development, and research so that various stakeholders can safely embrace renewable energy sources and respond if potential new hazards arise.



National Fire Protection Association BESS Fact Sheet

A: If you are installing ESS for either new construction or a renovation, you should review the requirements of NFPA 855, Standard for the Installation of Energy Storage Systems.

Battery Energy Storage System Code



Updates

NFPA 855 2023 applies to stationary BESS when the aggregate energy capacity exceeds threshold limits per fire area/outdoor installation as outlined in Table 1.3. This standard provides the minimum

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NFPA 855 Guide: Complying with the Battery Fire Code for Safer ...

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Energy Storage Safety Information , Energy Storage Coalition

The U.S. energy storage industry is partnering with firefighters to encourage the adoption of NFPA 855, the National Fire Protection safety standard for energy storage.





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