Building emergency energy storage system

Overview

This document provides guidance to first responders for incidents involving energy storage systems (ESS). While BESS technology is designed to bolster grid reliability, lithium battery fires at some . 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. NFPA Standards that . The 2026 edition of NFPA 855: Standard for the Installation of Stationary Energy Storage Systems has now been released, continuing the rapid evolution of safety requirements for battery energy storage systems (BESS).

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EPA issues battery storage safety guidelines

EPA has issued what it called the first comprehensive federal safety guidance for battery energy storage systems (BESS), outlining best practices for siting, installation, operation and

Energy Storage System (ESS) Equipment Approval and

A detailed description of the ESS remote monitoring capability and technology, including the remote monitoring facility, if any. Type of application/use of the ESS/batery unit, such as: grid

Battery Energy Storage Systems: Main Considerations for Safe

This webpage includes information from first responder and industry guidance as well as background information on battery energy storage systems (challenges & fires), BESS installation

Battery Energy Storage System (BESS) fire and explosion prevention

The NFPA 855 standard, developed by the National Fire Protection Association, provides detailed guidelines for the installation of stationary energy storage systems to mitigate the associated hazards.

Energy Storage Systems (ESS) and Solar Safety

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

Battery Energy Storage Systems: NFPA 855 Explained

Explore NFPA 855 compliance rules for battery energy storage systems, and then learn strategies for safe installation, spacing, and emergency planning.

National Fire Protection Association BESS Fact Sheet

This material contains some basic information about energy storage systems (ESS). It identifies some of the requirements in NFPA 855, Standard for the Installation of Energy Storage Systems, 2023 edition

First Responders Guide to Lithium-Ion Battery Energy Storage

This document provides guidance to first responders for incidents involving energy storage systems (ESS). The guidance is specific to ESS with lithium-ion (Li-ion) batteries, but some elements may

[Expanded Safety Guidelines for Battery Energy Storage Systems]

The 2026 edition of NFPA 855, Standard for the Installation of Stationary Energy Storage Systems, contains many new changes, including broader use of Hazard Mitigation Analysis (HMA)

[NFPA 855 (2026 Edition) - What's New for Battery Energy Storage]

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