



Fire protection design of energy storage batteries





Overview

The EPA's newly released fact sheet outlines best practices for safe installation, fire suppression planning, and post-incident cleanup.

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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 on active fire protection. An overview is provided of land and marine standards, rules, and guidelines.

The challenges of providing effective fire and explosion hazard mitigation strategies for Battery Energy Storage Systems (BESS) are receiving appreciable attention, given that renewable energy production has evolved significantly in recent years and is projected to account for 80% of new power.

Battery Energy Storage Systems, or BESS, help stabilize electrical grids by providing steady power flow despite fluctuations from inconsistent generation of renewable energy sources and other disruptions. While BESS technology is designed to bolster grid reliability, lithium battery fires at some.

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.

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). Since the first edition in 2020, each cycle has refined how the standard addresses.

The 2026 edition of NFPA 855, the Standard for the Installation of Stationary Energy Storage Systems, is now live. If your team installs or works near battery energy storage systems (BESS), a new fire safety standard is going to affect how those systems get designed, approved, and built. The 2026.



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Battery Storage Industry Unveils National Blueprint for Safety

A critical component of the Blueprint is understanding where the industry has been successful in efforts across the country to advocate for enforcement of the National Fire ...

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 ...



NFPA 855 (2026 Edition) -- What's New for Battery Energy ...

One of the first steps in applying NFPA 855 is confirming whether a system even falls within the scope of the standard. The 2026 edition significantly refines this step.

Bridging the fire protection gaps: Fire and ...

Lithium-ion (Li-ion) battery technology is commonly used for stationary grid scale BESS and poses inherent fire safety hazards due to ...



Test certification
CE FCC



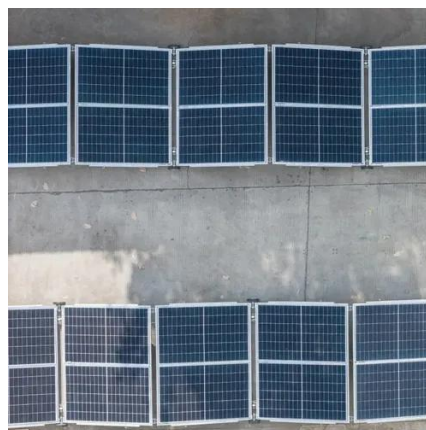
[New Fire Code Tightens Rules for Battery Energy ...](#)

Released by the National Fire Protection Association (NFPA), it outlines the minimum safety requirements for installing battery storage ...



EPA releases new BESS Battery Storage Safety Guidelines amid ...

The EPA's newly released fact sheet outlines best practices for safe installation, fire suppression planning, and post-incident cleanup.



[Marioff HI-FOG Fire protection of Li-ion BESS Whitepaper](#)

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Evaluating Fire and Smoke Risks with Lithium-Ion Cells, ...

Lithium-ion (Li-ion) batteries are finding use in an increasingly large number of applications such as electric vehicles (EVs), e-mobility devices, and stationary energy storage systems (ESSs). ...



Commercial and Industrial ESS

Air Cooling / Liquid Cooling

- Budget Friendly Solution
- Renewable Energy Integration
- Modular Design for Flexible Expansion



Bridging the fire protection gaps: Fire and explosion risks in grid

Lithium-ion (Li-ion) battery technology is commonly used for stationary grid scale BESS and poses inherent fire safety hazards due to li-ion battery failure.

Advances and perspectives in fire safety of lithium-ion battery energy

In this review, we comprehensively summarize recent advances in lithium iron phosphate (LFP) battery fire behavior and safety protection to solve the critical issues and ...



Advances and perspectives in fire safety of lithium-ion battery ...

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[Fire Suppression for Lithium-Ion Battery Storage ...](#)

Lithium-ion batteries and an increasingly popular power source in our modern world. Unfortunately, even with all the fire risks ...

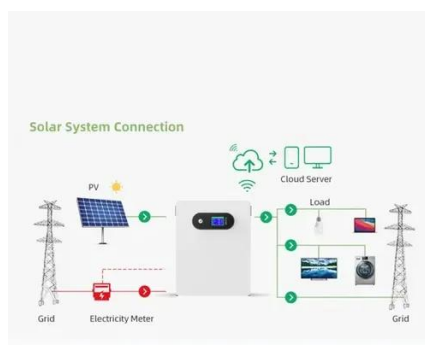


[Battery Energy Storage Systems: Main ...](#)

This webpage includes information from first responder and industry guidance as well as background information on battery energy ...

Fire Suppression for Lithium-Ion Battery Storage Systems ...

Lithium-ion batteries and an increasingly popular power source in our modern world. Unfortunately, even with all the fire risks associated with Battery Energy Storage ...



New Fire Code Tightens Rules for Battery Energy Storage Systems

Released by the National Fire Protection Association (NFPA), it outlines the minimum safety requirements for installing battery storage across commercial, industrial, and ...



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

One of the first steps in applying NFPA 855 is confirming whether a system even falls within the scope of the standard. The 2026 edition significantly refines this step.





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