



Fire protection requirements for energy storage cabinets





Overview

National Fire Protection Association (NFPA) Standard 855: Standards detailing the requirements for mitigating the hazards associated with energy storage systems (ESS). First edition 2020; current edition 2023; next update 2026.

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storage Systems (ESS) for all indoor and outdoor use in New York City. The 2022 NYC Fire Code Section 608, New York City Fire Department (FDNY) Rule 3 RCNY Section 608-01 and the Department of Buildings (DOB) Codes and Rules shall be followed for the desi a d Outdoor ESS systems require approval.

Recognizing this, NYSERDA wishes to provide clarity regarding certain provisions and requirements of the Uniform Code relating to the safety of energy storage installations: NYSERDA recommends that all energy storage systems exceeding the applicable maximum allowable quantities (MAQ) in aggregate.

Battery energy storage systems (BESS) stabilize the electrical grid, ensuring a steady flow of power to homes and businesses regardless of fluctuations from varied energy sources or other disruptions. However, fires at some BESS installations have caused concern in communities considering BESS as a.

This is where the National Fire Protection Association (NFPA) 855 comes in. NFPA 855 is a standard that addresses the safety of energy storage systems with a particular focus on fire protection and prevention. In this blog post, we'll dive into what NFPA 855 is, why it's important, and the key.

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. DID YOU KNOW?

Battery storage capacity in the United States is.

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.



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[Fire Codes and NFPA 855 for Energy Storage Systems](#)

Fire codes and standards inform energy storage system design and installation and serve as a backstop to protect homes, families, commercial facilities, and personnel, ...

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

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 ...

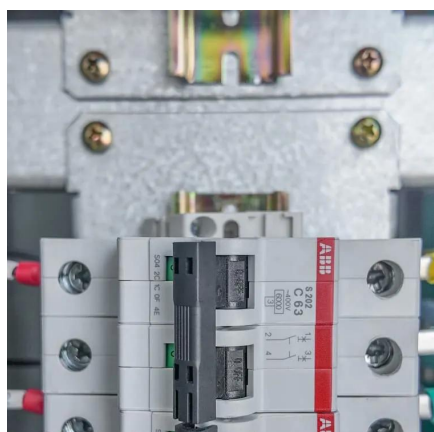
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[Battery Energy Storage Systems: Main Considerations for ...](#)

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

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

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

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Battery Storage Industry Unveils National Blueprint for Safety

To that end, the energy storage industry has developed a three-part strategy that includes policy recommendations and safety requirements aimed at holistically addressing ...

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[Energy Storage System \(ESS\) Equipment Approval and ...](#)

Fire alarm systems that serve ESS shall be provided with descriptive contact I.D. that identifies the coverage to be for an "Energy Storage System" to the central monitoring ...

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[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 ...

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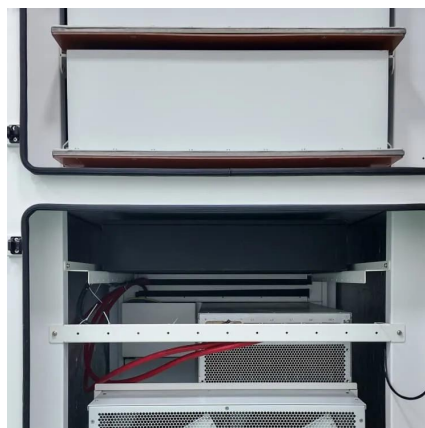
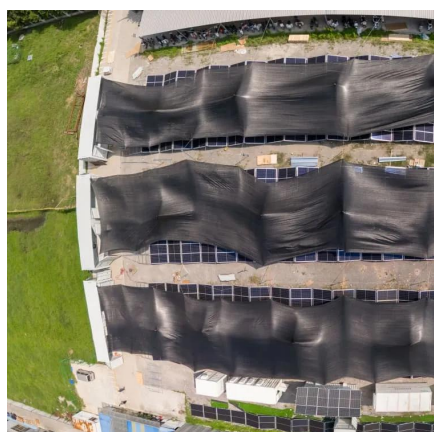
[New Residential Energy Storage Code](#)



[Requirements](#)

Find out about options for residential energy storage system siting, size limits, fire detection options, and vehicle impact protections.

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[Energy storage cabinet fire protection design](#)

An effective fire protection system must fulfill the following requirements:

- o Detect a potential thermal runaway at the earliest possible stage
- o Quickly extinguish any incipient fires and

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[New York Battery Energy Storage System Guidebook for ...](#)

All energy storage systems must be designed and installed in accordance with all applicable provisions of the Uniform Code. Select excerpts from the 2020 Uniform Code that apply to ...

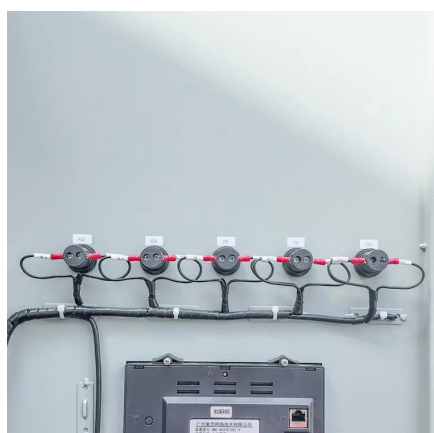
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[National Fire Protection Association BESS Fact Sheet](#)

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 ...

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