

# Battery Energy Storage Station Fire Protection Requirements



## Overview

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Core requirements include rack separation limits, a Hazard Mitigation Analysis to prevent thermal-runaway cascades, early-acting fire suppression and gas detection, stored-energy caps for occupied buildings, and detailed safety documentation (UL).

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### [IR N-3: Modular Battery Energy Storage Systems](#)

This Interpretation of Regulations (IR) clarifies specific code requirements relating to battery energy storage systems (BESS) consisting of prefabricated modular structures not on or inside a building for

### [5.12 Energy Storage Systems in R-3 Occupancies](#)

Purpose: To provide guidance and clarify requirements to satisfy the 2022 California Fire Code Supplement Section 1207.11 and CSFM Information Bulletin 21-004.



### **California Codes ? BESS SDK**

A summary of the building code and fire code requirements for battery energy storage systems for California.

### [Comprehensive Guide to Battery Room Protection: NFPA Codes and Fire](#)

This article provides a detailed overview of these requirements, referencing NFPA 855 and other relevant codes.



### [EPA releases new BESS Battery Storage Safety Guidelines amid](#)



But as installations surge nationwide, so do concerns about fire hazards, toxic emissions, and emergency response challenges. The EPA's newly released fact sheet outlines best practices

### [California Fire Code Battery Storage Requirements](#)

Learn what California's fire code requires for battery storage, from home installs to commercial systems and the permitting process.



### **CAL FIRE**

CAL FIRE - Office of the State Fire Marshal (OSFM) has established comprehensive regulations to ensure the safe installation and operation of battery energy storage systems (BESS) across the

### [California Battery Energy Storage Safety Recommendations](#)

CESA and ACP-CA recommend that the Office of the State Fire Marshal, in coordinated with the CPUC, provide guidance to local authorities on the information included in emergency response plans to



### [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

## [NFPA 855 Guide: Complying with Fire Code for Batteries](#)

Learn how to comply with NFPA 855 battery fire code requirements for energy storage systems. Key rules, spacing, UL 9540A testing, and documentation steps.



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