



**BLINK SOLAR**

**Does the energy storage container have to have a sprinkler**



## Overview

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Do I need a sprinkler system for a battery ESS?

A: Testing has shown that water is the most effective agent for cooling for a battery ESS. For this reason, a sprinkler system designed in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems, is required by NFPA 855, Standard for the Installation of Energy Storage Systems.

Should energy storage systems be protected by NFPA 13?

According to the Fire Protection Research Foundation of the US National Fire Department in June 2019, the first energy storage system nozzle research based on UL-based tests was released. Currently, the energy storage system needs to be protected by the NFPA 13 sprinkler system as required.

Are energy storage systems a fire hazard?

There is currently limited data available on the fire hazard of energy storage systems (ESS) including two full-scale open-air tests from the 2016 Foundation project and a separate project that included intermediate scale fire testing conducted at the module level to evaluate the performance of fire suppressants.

Can a sprinkler system cool an ESS fire?

Testing has shown water to be the most effective medium for cooling an ESS fire. A sprinkler system that complies with NFPA 13, Standard for the Installation of Sprinkler Systems, should be installed in buildings where an ESS is installed.

## Does the energy storage container have to have a sprinkler

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### Energy Storage Container Fire Suppression Systems: ...

As the energy storage industry grows, ensuring fire safety for energy storage containers is crucial. There are three main fire suppression system designs commonly used for energy storage ...

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## National Fire Protection Association BESS Fact Sheet

The table below, which summarizes information from a 2019 Fire Protection Research Foundation (FPRF) report, "Sprinkler Protection Guidance for Lithium-Ion Based ...



### Fire Safety Revolution: How Advanced Sprinkler Systems Are ...

The Invisible Threat: Why Energy Storage Containers Need Specialized Fire Protection You know, lithium-ion batteries aren't just powering your smartphone - they're driving the \$33 billion ...

## ENERGY STORAGE CONTAINER SPRINKLER

The ESS project that led to the first edition of NFPA 855, the Standard for the Installation of Stationary Energy Storage Systems (released in 2019), originated from a request submitted on ...



### The Inside Look: What you need to know ...

These battery energy storage systems usually incorporate large-scale lithium-ion battery installations to store energy for short periods. The ...

## Sprinkler Protection Guidance for Lithium-Ion Based Energy Storage

...

This report determines sprinkler protection guidance for grid connected lithium-ion battery based ESS for commercial occupancies.



### Energy Storage Safety: Fire Protection ...

Energy storage container fire system design gas fire extinguishing system,



while installing sprinkler system, is considered to ...

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### **NFPA releases fire-safety standard for energy ...**

According to the Fire Protection Research Foundation of the US National Fire Department in June 2019, the first energy storage ...



### **Does the energy storage container have to have a sprinkler**

FM Global (Ditch et al., 2019) developed recommendations for the sprinkler protection of for lithium ion based energy storage systems. The research technical report that provides the ...

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### **Energy Storage Container Fire Protection System: A Key ...**

Different types of extinguishing systems each have their own advantages and

disadvantages. Sprinkler systems can effectively extinguish flames, while gas extinguishing ...



1mwh (500kW/1mW)  
AIR COOLING  
ENERGY STORAGE CONTAINER



## Energy Storage Safety: Fire Protection Systems Explained

Energy storage container fire system design gas fire extinguishing system, while installing sprinkler system, is considered to be the most comprehensive and economical ...

### NFPA releases fire-safety standard for energy storage system ...

According to the Fire Protection Research Foundation of the US National Fire Department in June 2019, the first energy storage system nozzle research based on UL-based ...



### The Inside Look: What you need to know about Battery Energy Storage

These battery energy storage systems



usually incorporate large-scale lithium-ion battery installations to store energy for short periods. The systems are brought online during periods ...

## Contact Us

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