



# Energy storage fire protection system acceptance

What are the fire and building codes for energy storage systems?

However, many designers and installers, especially those new to energy storage systems, are unfamiliar with the fire and building codes pertaining to battery installations. Another code-making body is the National Fire Protection Association (NFPA). Some states adopt the NFPA 1 Fire Code rather than the IFC.

Does ESS comply with NFPA 70?

nt,including ESS,must complyto meet code requirements. NFPA 70 has been adopted b or the Installation of Stationary Energy Storage SystemsFirst released in 2020,NFPA 855 is an installation code that addresses the dangers of toxic and flammable gases,stranded energy,and increased fire intensity that

What is battery energy storage fire prevention & mitigation?

In 2019, EPRI began the Battery Energy Storage Fire Prevention and Mitigation - Phase I research project, convened a group of experts, and conducted a series of energy storage site surveys and industry workshops to identify critical research and development (R&D) needs regarding battery safety.

Are battery energy storage systems safe?

Owners of energy storage need to be sure that they can deploy systems safely. Over a recent 18-month period ending in early 2020, over two dozen large-scale battery energy storage sites around the world had experienced failures that resulted in destructive fires. In total, more than 180 MWh were involved in the fires.

What is NFPA 13?

The industry benchmark for design and installation of automatic fire sprinkler systems,NFPA 13 addresses sprinkler system design approaches,system installation,and component options to prevent fire deaths and property loss.

Where can I find information on energy storage failures?

For up-to-date public data on energy storage failures,see the EPRI BESS Failure Event Database.<sup>2</sup> The Energy Storage Integration Council (ESIC) Energy Storage Reference Fire Hazard Mitigation Analysis (ESIC Reference HMA),<sup>3</sup> illustrates the complexity of achieving safe storage systems.

RCNY 608-01 provides requirements for various fire suppression and detection systems as well as other fire protection related systems that are required for the battery energy storage system depending upon the type of system, size of the ...



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