

Outdoor safety distance of energy storage cabinet

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 are the energy storage operational safety guidelines?

In addition to NYSERDA's BESS Guidebook, ESA issued the U.S. Energy Storage Operational Safety Guidelines in December 2019 to provide the BESS industry with a guide to current codes and standards applicable to BESS and provide additional guidelines to plan for and mitigate potential operational hazards.

What are the key codes for energy storage systems?

The key codes include NFPA 855, Standard for Installation of Stationary Energy Storage Systems 2020 edition, and the International Fire Code 2021 edition. The key product safety standard addressing ESS is UL9540, which includes large-scale fire testing to UL 9540a.

What is the battery energy storage system guidebook?

NYSERDA published the Battery Energy Storage System Guidebook, most-recently updated in December 2020, which contains information and step-by-step instructions to support local governments in New York in managing the development of residential, commercial, and utility-scale BESS in their communities.

Do electric energy storage systems need to be tested?

It is recognized that electric energy storage systems consist of components, each having limited functions, and all of which need to be tested for those functions in accordance with this standard.

What is an energy storage roadmap?

This roadmap provides necessary information to support owners, operators, and developers of energy storage in proactively designing, building, operating, and maintaining these systems to minimize fire risk and ensure the safety of the public, operators, and environment.

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Work on ESS safety is a key area for PNNL's Battery Materials & Systems Group. Funded by the Department of Energy's Office of Electricity, PNNL has recently developed technology to prevent explosions in outdoor ...

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