



# Safety requirements for energy storage battery installation

What are these guidelines on safety best practices for battery energy storage systems?

The EASE Guidelines on Safety Best Practices for Battery Energy Storage Systems (BESS) are designed to support the safe deployment of outdoor, utility-scale lithium-ion (Li-ion) BESS across Europe.

What is the battery energy storage system guidebook?

A public benefit corporation, NYSERDA has been advancing energy solutions and working to protect the environment since 1975. The Battery Energy Storage System Guidebook contains information, tools, and step-by-step instructions to support local governments managing battery energy storage system development in their communities.

What are the requirements for external battery storage equipment?

None applicable at present. 3.2.3 Separate specific requirements External enclosure of the battery storage equipment is metallic material having a minimum thickness not less than 0.20 mm at any point, or is a polymeric material classified as 5VA according to IEC 60695-11-20:2015 (provided that the test sample used

How should energy storage systems be certified?

Certifications based on standards should be completed at the battery as well as entire system level. Attention should be paid to limitations of the systems that are related to fire, smoke, toxicity, and environmental pollution. Maintenance and periodic audits are imperative for safe functioning of long-term energy storage installations.

Do you need a risk assessment for a battery installation?

AS/NZS 5139 has mandatory requirements to identify all hazards associated with batteries and requires the completion of a risk assessment prior to planning a battery installation. Many accredited installers have experience with the risk assessment process through safe work method statements (SWMS) or job safety analysis (JSA).

How many volts can a battery store?

The battery contains lithium as part of the energy storage medium. The battery storage equipment has a rated capacity of equal to or greater than 1 kWh and up to and including 200 kWh of energy storage capacity when measured at 0.1C. For battery modules, the output voltage upper limit is 1500 V d.c. (noting that such parts



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