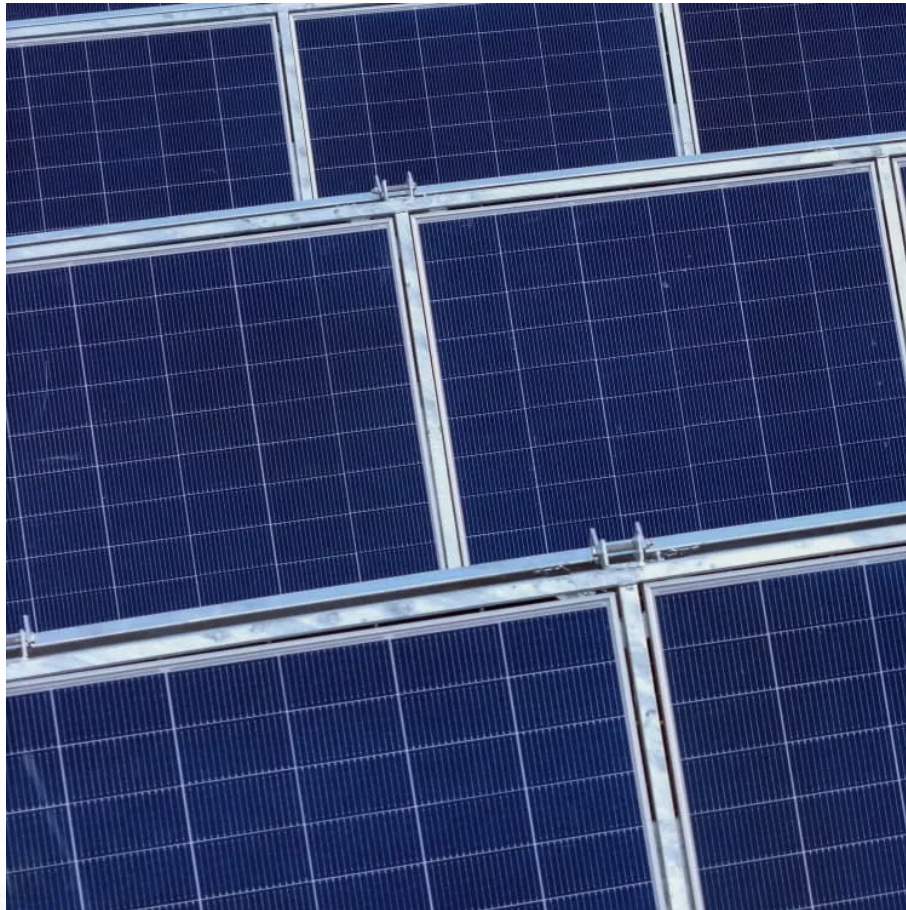


# **Safety Questions the Battery Energy Storage Industry**





## Overview

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Are battery energy storage systems safe?

WASHINGTON, D.C., March 28, 2025 — Today, the American Clean Power Association (ACP) released a comprehensive framework to ensure the safety of battery energy storage systems (BESS) in every community across the United States, informed by a new assessment of previous fire incidents at BESS facilities.

How do you ensure safety in the battery energy storage industry?

This document outlines a framework for ensuring safety in the battery energy storage industry through rigorous standards, certifications, and proactive collaboration with various stakeholders. It emphasizes collaboration with fire departments, safety experts, policymakers, and regulators to implement safety recommendations.

Are large-scale battery energy storage systems safe?

Large-scale battery energy storage systems (BESS), particularly those using lithium-ion batteries, present several safety concerns despite advancements in technology and regulation: Lithium-ion batteries are prone to thermal runaway—a self-sustaining chain reaction causing rapid overheating, fires, and potential explosions.

What is a battery energy storage safety program?

It emphasizes collaboration with fire departments, safety experts, policymakers, and regulators to implement safety recommendations. The goal is to ensure the safe and reliable performance of battery energy storage systems as critical power grid infrastructure.

What is a battery energy storage system?

Battery energy storage systems (BESS) stabilize the electrical grid, ensuring a steady flow of power to homes and businesses regardless of fluctuations from



varied energy sources or other disruptions. However, fires at some BESS installations have caused concern in communities considering BESS as a method to support their grids.

Is utility-scale battery energy storage safe?

Utility-scale battery energy storage is safe and highly regulated, growing safer as technology advances and as regulations adopt the most up-to-date safety standards. Discover more about energy storage & safety at [EnergyStorage.org](https://EnergyStorage.org)



## Safety Questions the Battery Energy Storage Industry

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### Desay Battery highlights safety-focused innovations at RE+

12 hours ago · Desay Battery has taken part in the 2025 edition of RE+ in Las Vegas, showcasing a full portfolio of innovations while announcing a strategic collaboration with Shenzhen Hello ...

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### [Battery Energy Storage Systems \(BESS\) FAQ Reference 8.23](#)

At AES' safety is our highest priority. AES is a global leader in energy storage and has safely operated a fleet of battery energy storage systems for over 15 years. Today, AES ...

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### Siting and Safety Best Practices for Battery Energy Storage ...

Summary The following document summarizes safety and siting recommendations for large battery energy storage systems (BESS), defined as 600 kWh and higher, as provided by the ...

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### Safety Risks and Risk Mitigation

Apart from Li-ion battery chemistry, there are several potential chemistries that can be used for stationary grid energy storage applications. A discussion on the chemistry and potential risks ...





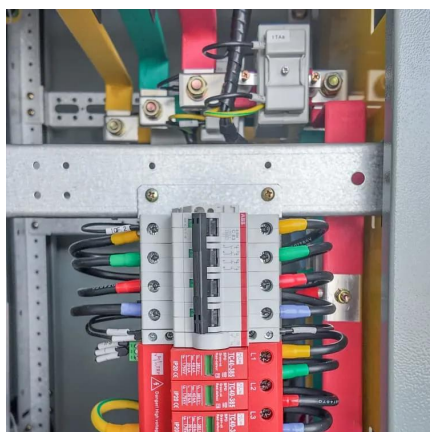
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### Modular design architecture with smart protection can mitigate ...

Battery storage at this 10MW/20MWh project in Bulgaria was installed in just 10 days, made possible by Sigenergy's highly modular C& I BESS solution. Image: Sigenergy. ...

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### Battery Storage Industry Unveils National Blueprint for Safety

ACP's Battery Storage Blueprint for Safety outlines key actions and policy recommendations for state and local jurisdictions to regulate battery storage, enforce the ...

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### 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 ...

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### [Claims vs. Facts: Energy Storage Safety , ACP](#)

However, because energy storage technologies are generally newer than most other types of grid infrastructure like substations and transformers, there are questions and claims related to the ...

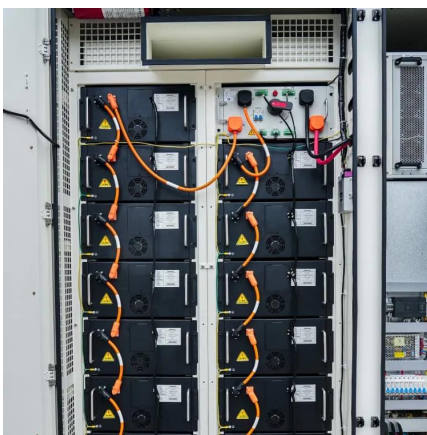
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### **What are the main safety concerns associated with large-scale ...**

Large-scale battery energy storage systems (BESS), particularly those using lithium-ion batteries, present several safety concerns despite advancements in technology and ...

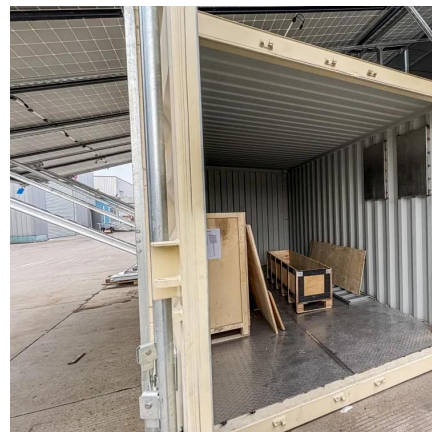
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### **Safety Concerns and Regulatory Issues in Battery Energy Storage ...**

This article provides a detailed examination of the primary safety concerns associated with BESS, the evolving regulatory landscape, and the measures necessary to ...

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### **From Innovation to Impact -- The BSES Story at POWERGEN ...**

The discoms showcased their pioneering achievements -- from record-breaking AT& C loss reduction that has set national benchmarks, to path-breaking innovations like the Kilokri ...

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### Preventing the Next Battery Incident: Rethinking Battery Energy Storage

As battery energy storage systems expand, recent fires and explosions prove compliance isn't enough. James Close and Edric Bulan say only a layered, system-wide safety ...

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### [Battery Energy Storage: Blueprint for Safety](#)

This document outlines a framework for ensuring safety in the battery energy storage industry through rigorous standards, certifications, and proactive collaboration with various stakeholders.

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### [White paper BATTERY ENERGY STORAGE SYSTEMS ...](#)

The majority of newly installed large-scale electricity storage systems in recent years utilise lithium-ion chemistries for increased grid resiliency and sustainability. The capacity of lithium ...

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### **What Safety Professionals Need to Know About Battery Energy ...**

Large-scale battery energy storage systems (BESS) are becoming more common in all workplaces. As these systems become more widespread, you need to better understand ...

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### **Designing Safe and Effective Energy Storage Systems: Best ...**

Building a safe and effective battery energy storage system hinges on meticulous planning, advanced technology selection, and rigorous safety protocols. By prioritizing ...

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### **What Safety Professionals Need to Know About Battery Energy Storage ...**

Large-scale battery energy storage systems (BESS) are becoming more common in all workplaces. As these systems become more widespread, you need to better understand ...

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### **What are the main safety concerns associated with large-scale battery**

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