

# Energy storage system caught fire and exploded

**215kWh**

8,000+ Cycles Lifetime

IP54 Protection Degree



## Overview

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When fire broke out at the world's largest battery energy storage facility in January 2025, its thick smoke blanketed surrounding wetlands, farms and nearby communities on the central California coast. Local fire service project would not be possible without this funding and continued support. The Surprise Fire-Medical Department, Peoria Fire-Medical Department, and Arizona Public Service (APS) supplied requested information and made the personnel who had knowledge pertinent to the incident. A few weeks ago, a fire broke out at the Moss Landing Power Plant in California, the world's largest collection of batteries on the grid. Some residents in the area have reported health issues that they. A battery energy storage facility that was built inside an old power plant burned from Jan.

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### What a major battery fire means for the future of energy

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Let's catch up on what happened in this fire, what the lingering concerns are, and what comes next for the energy storage industry.

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### Fire at the largest BESS in the world led to evacuation of 1500

On Septem, a malfunction occurred in the Phase I system of Vistra Corporation's Battery Energy Storage Systems (BESS) at the Moss Landing Power Plant, damaging ...



 LFP 48V 100Ah

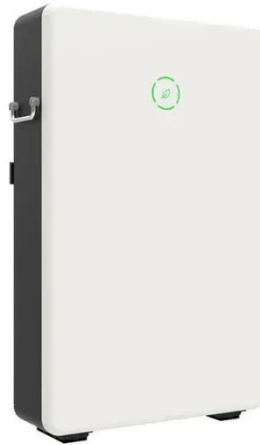


### After a High-Profile Fire, Battery Energy Storage Providers

A report released Friday by a clean-energy trade group spells out best practices for safe use of large-scale battery energy storage systems following a major fire at a battery facility

## US Has Suffered Second Highest Number of Major Storage Fires

A database detailing utility and commercial & industrial-scale energy storage failures over a 12-year period shows that California and New York are the US states that have experienced the most ...



## Fire at battery plant in Moss Landing, California, forces evacuations

A major fire erupted Thursday in Northern California at one of the world's largest battery storage plants. Part of Highway 1 was closed and about 1,500 people were instructed to leave Moss Landing and the ...

## Fire at world's largest battery facility is a clean energy setback

A fire at the world's largest battery storage plant in California destroyed 300 megawatts of energy storage, forced 1200 area residents to evacuate and released smoke plumes that could pose

Energy storage(KWH)

**102.4kWh**

Nominal voltage(Vdc)

**512V**

Outdoor All-in-one ESS cabinet



## BESS Failure Incident Database



BESS: A stationary energy storage system using battery technology. The focus of the database is on lithium ion technologies, but other battery technology failure incidents are included.

### Four Firefighters Injured In Lithium-Ion Battery Energy Storage ...

On Ap, one male career Fire Captain, one male career Fire Engineer, and two male career Firefighters received serious injuries as a result of cascading thermal runaway within a 2.16 MWh ...



### When the world's largest battery power plant caught fire, toxic metals

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### Emerging Hazards of Battery Energy Storage System Fires

In April 2019, an unexpected explosion of batteries on fire in an Arizona energy storage facility injured eight firefighters.



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