

## A-Core Container

# Fire Energy Storage Power Station Briefing



## Overview

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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.

How many MWh of battery energy were involved in the fires?

In total, more than 180 MWh were involved in the fires. For context, Wood Mackenzie, which conducts power and renewable energy research, estimates 17.9 GWh of cumulative battery energy storage capacity was operating globally in that same period, implying that nearly 1 out of every 100 MWh had failed in this way.<sup>1</sup>

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.

Are electric vehicles causing a 'battery energy storage fire'?

With the growing number of electric vehicles and batteries for energy storage on the grid, more high-profile fires have hit the news, like last year's truck fire in LA, the spate of e-bike battery fires in New York City, or one at a French recycling plant last year. "Battery energy storage systems are complex machines," Mulvaney says.

Could a battery-swapping system help reduce fire risk?

A battery-swapping system could help address the problem. Insulating materials layered inside EV batteries could help reduce fire risk. A company

making them just got a big boost in the form of a loan from the US Department of Energy. New chemistries, like iron-air batteries, promise safer energy storage.

Is Moss Landing power plant fire affecting battery safety?

The latest fire at Moss Landing Power plant is raising concerns about battery safety. This article is from The Spark, MIT Technology Review 's weekly climate newsletter. To receive it in your inbox every Wednesday, sign up [here](#).

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