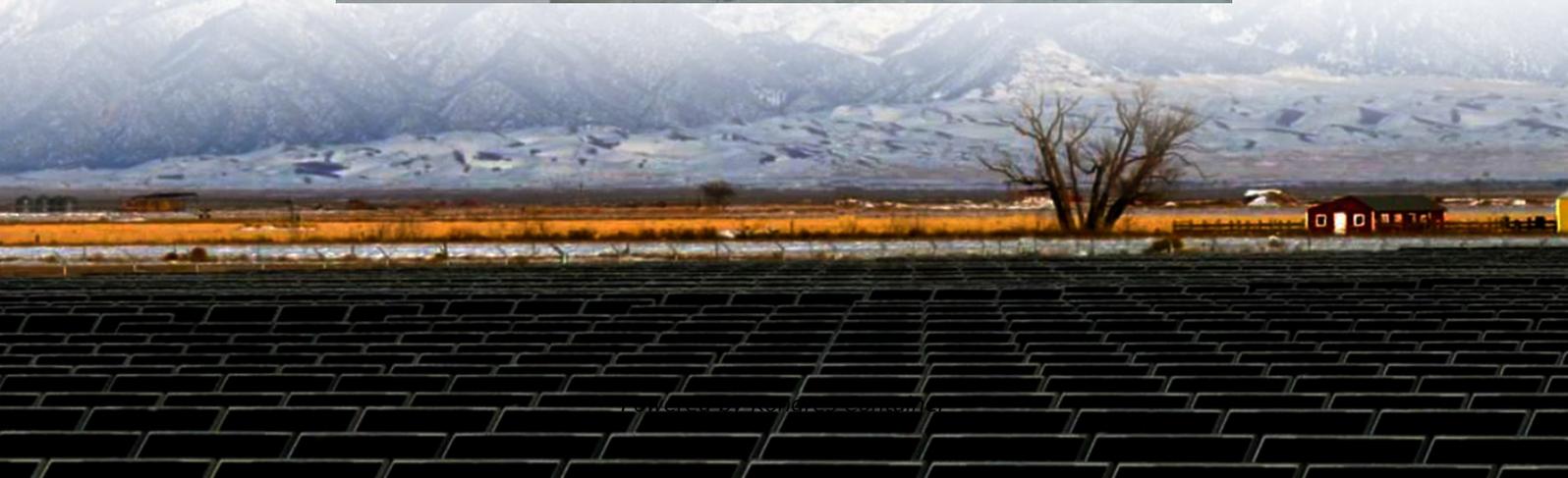


## Kongres Container

# Energy storage fire protection system equipment manufacturer



## Overview

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How can a battery management system prevent a fire?

Using battery management systems (BMS), predictive analytics, and strict quality standards can minimize fire hazards and ensure safe, reliable energy storage. Battery fires in energy storage systems can cause severe infrastructure damage, toxic gas emissions, and rapid fire spread, making early detection and suppression critical.

How can battery energy storage improve fire safety?

Battery energy storage is revolutionizing power grids, but fire safety remains a critical challenge. Advanced fire detection and suppression technologies, including immersion cooling, are making BESS safer by preventing thermal runaway and minimizing risks.

Which fire suppression methods are used in enclosed battery storage systems?

Gas and aerosol-based fire suppression methods are widely used in enclosed battery storage systems, where eliminating oxygen or chemically neutralizing flames is a viable strategy. These suppression technologies are particularly effective because they leave no residue, minimizing damage to sensitive electrical components.

Can a lithium-ion battery energy storage system detect a fire?

Since December 2019, Siemens has been offering a VdS-certified fire detection concept for stationary lithium-ion battery energy storage systems.\* Through Siemens research with multiple lithium-ion battery manufacturers, the FDA unit has proven to detect a pending battery fire event up to 5 times faster than competitive detection technologies.

Can water-based fire suppression be used in large-scale energy storage facilities?

This hybrid approach is particularly useful in large-scale energy storage facilities, where electrical safety is a top concern. While water-based suppression is effective for temperature control, it is often used alongside other fire suppression methods for full containment of lithium-ion battery fires.

How does a fire protection system work?

In addition to controlling the automated extinguishing system, the fire protection system triggers all other necessary battery management system control functions. As its name implies - "aspirated" smoke and off-gas detection systems use an "aspirator" mounted in a detector unit.

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