

## Kongres Container

# Energy storage batteries and factory safety



## Overview

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This report provides a historical overview of BESS incidents, the resulting evolution of North American codes and standards, their influence on ESS installations. Environmental safety is also discussed as an essential element in the future decommissioning of these systems.

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Battery Energy Storage Systems, or BESS, help stabilize electrical grids by providing steady power flow despite fluctuations from inconsistent generation of renewable energy sources and other disruptions. While BESS technology is designed to bolster grid reliability, lithium battery fires at some.

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.

Nevertheless, failures of Li ion batteries in other markets, most prominently fires involving unqualified and unregulated hoverboards, e-bikes, and e-scooters,<sup>4</sup> have raised public awareness of Li ion battery failures to such an extent that local opposition has caused the cancellation of some BESS.

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