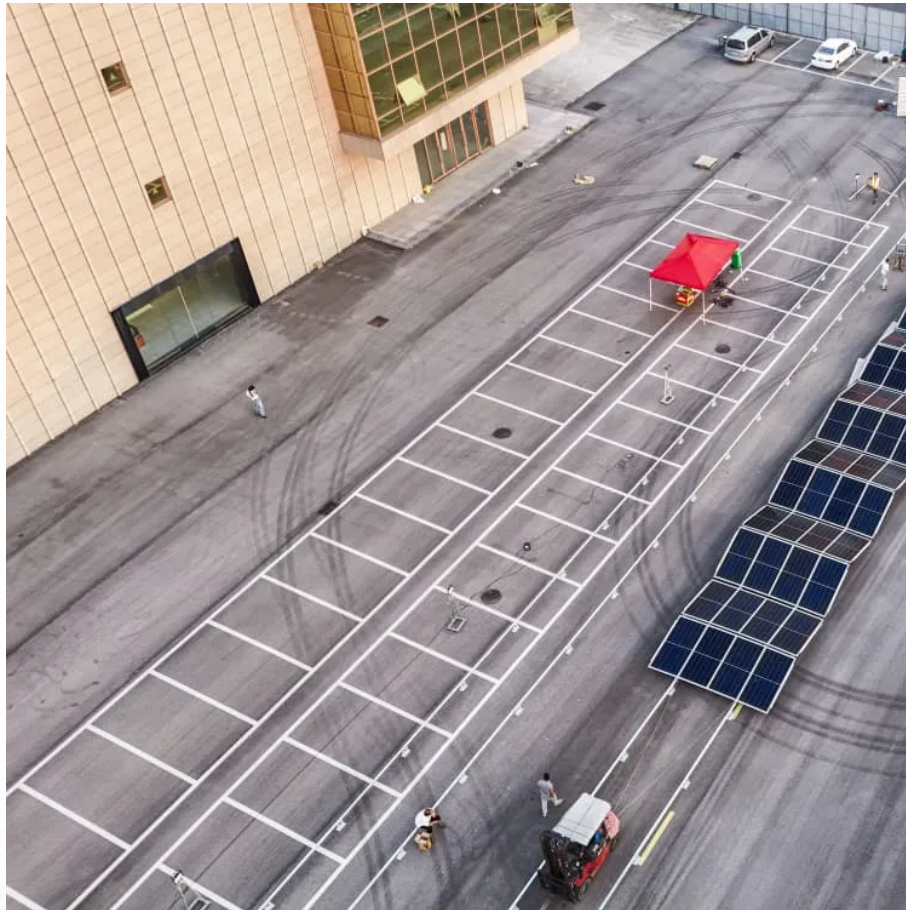


## Kongres Container

# Relatively safe energy storage batteries



## Overview

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Today's energy storage systems (ESSs) predominantly use safer lithium-iron phosphate (LFP) chemistry, compared with the nickel-manganese-cobalt (NMC) technology found in EVs. LFP cell failure results in less energy release and a lower probability of fire.

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In 2019, New York passed the nation-leading Climate Leadership and Community Protection Act (Climate Act), which codified aggressive climate and energy goals, including the deployment of 1,500 MW of energy storage by 2025, and 3,000 MW by 2030. Over \$350 million in New York State incentives have.

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.

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) Energy storage systems (ESS) are critical to a clean and efficient.

NREL's extensive portfolio of battery-safety research includes high-speed X-ray imaging to show what happens during battery failure. Image by Donal Finegan, NREL Tucked into your pocket, packed into warehouses, and embedded into critical infrastructure—lithium-ion batteries are quietly powering.

The BESS Safety and Best Practices Resource Library includes a range of resources on Battery Energy Storage Systems (BESS) safety from introductory information to relevant research, applicable guides and protocols, training

resources, and webinars on battery energy storage safety best practices.

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