

## ContainerPower Energy Solutions

# Energy storage battery charges lithium battery



## Overview

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A battery energy storage system (BESS) is an electrochemical device that charges (or collects energy) from the grid or a power plant and then discharges that energy at a later time to provide electricity or other grid services when needed.

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Despite achieving energy densities up to 300 Wh/kg, cycle lives exceeding 2000 cycles, and fast-charging capabilities, lithium-ion batteries face significant challenges, including safety risks, resource scarcity, and environmental impacts.

This webpage includes information from first responder and industry guidance as well as background information on battery energy storage systems (challenges & fires), BESS installation considerations, BESS incident response considerations, and resources.

No current technology fits the need for long duration, and currently lithium is the only major technology attempted as cost-effective solution. Lead is a viable solution, if cycle life is increased.

As an important first step in protecting public and firefighter safety while promoting safe energy storage, the New York State Energy Research and Development Authority (NYSERDA) developed the first comprehensive set of guidelines for reviewing and evaluating battery energy storage systems.

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