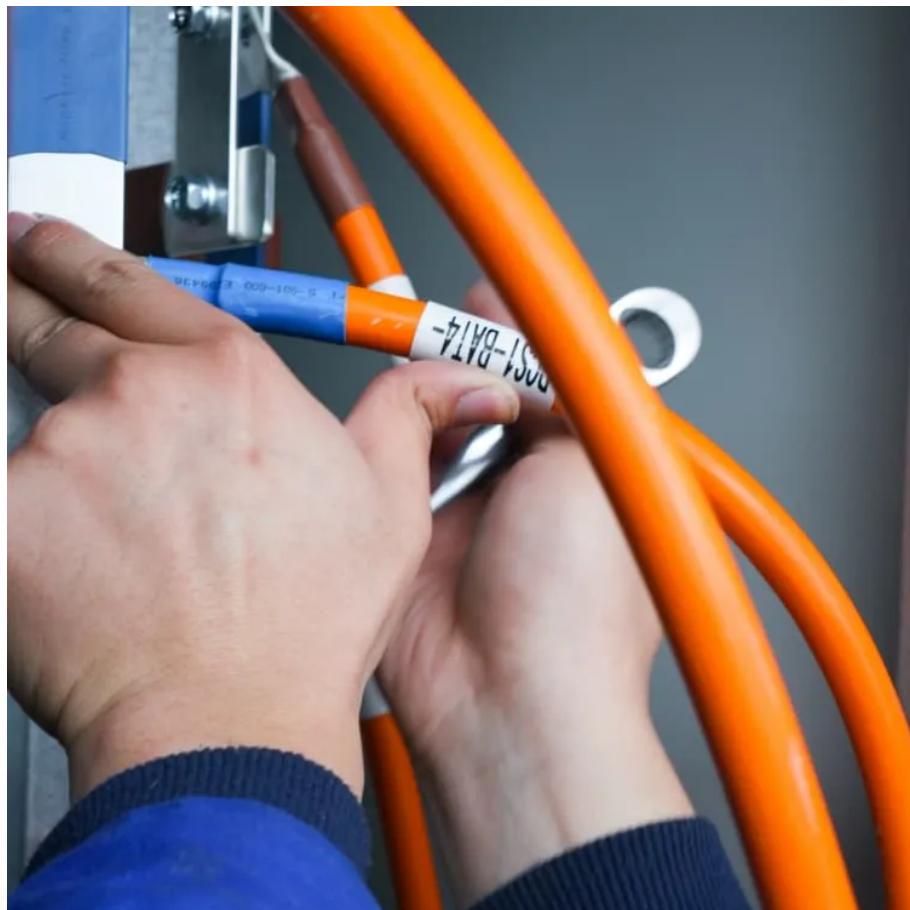




BUHLE POWER

# Energy storage batteries must be new





## Overview

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Are battery energy-storage technologies necessary for grid-scale energy storage?

The rise in renewable energy utilization is increasing demand for battery energy-storage technologies (BESTs). BESTs based on lithium-ion batteries are being developed and deployed. However, this technology alone does not meet all the requirements for grid-scale energy storage.

Why do we need a battery energy-storage technology (best)?

BESTs are increasingly deployed, so critical challenges with respect to safety, cost, lifetime, end-of-life management and temperature adaptability need to be addressed. The rise in renewable energy utilization is increasing demand for battery energy-storage technologies (BESTs).

Are batteries the future of energy storage?

Developments in batteries and other energy storage technology have accelerated to a seemingly head-spinning pace recently — even for the scientists, investors, and business leaders at the forefront of the industry. After all, just two decades ago, batteries were widely believed to be destined for use only in small objects like laptops and watches.

Why are next-generation batteries important?

The combination of renewable energy sources and advanced energy storage is essential for creating a sustainable energy future. As renewable energy becomes more prevalent worldwide, next-generation batteries play a crucial role in maintaining grid stability, managing peak energy demand, and enhancing overall energy efficiency.



## Energy storage batteries must be new



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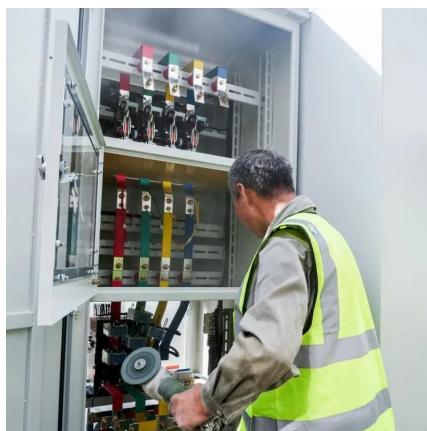
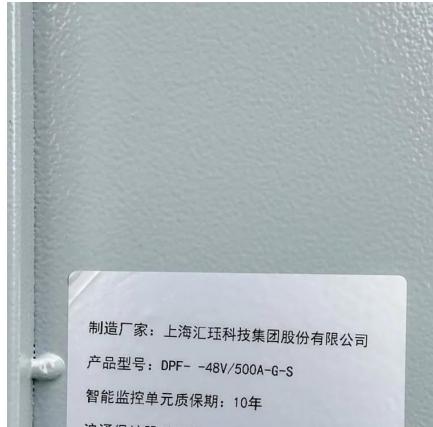
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