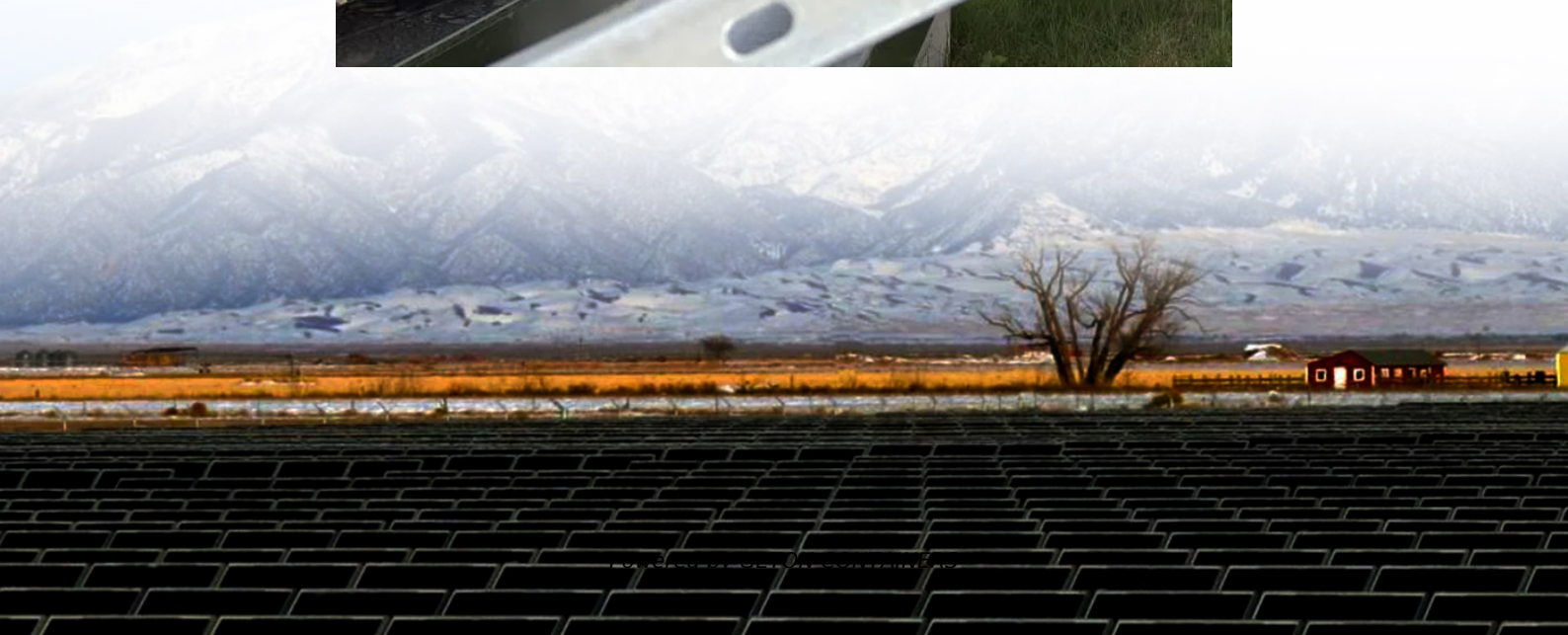


# **Future demand for energy storage batteries**





## Overview

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What is the future of battery storage?

Batteries account for 90% of the increase in storage in the Net Zero Emissions by 2050 (NZE) Scenario, rising 14-fold to 1 200 GW by 2030. This includes both utility-scale and behind-the-meter battery storage. Other storage technologies include pumped hydro, compressed air, flywheels and thermal storage.

What is the future of lithium-ion battery storage?

Key Point No. 4: Recycling batteries and mining for their raw materials present interrelated challenges — and opportunities. Meng projects that a future version of the world that relies on clean energy will require between 200 TWh and 300 TWh of lithium-ion battery storage.

Will commercial battery deployments overtake residential build by 2030?

Commercial battery deployments overtake residential build by 2030 in BNEF's latest outlook, thanks to updated assumptions on attachment rates, which refer to the percentage of solar installations that are paired with a battery. Lithium iron phosphate (LFP) remains the prevalent lithium-ion battery chemistry in the stationary energy storage market.

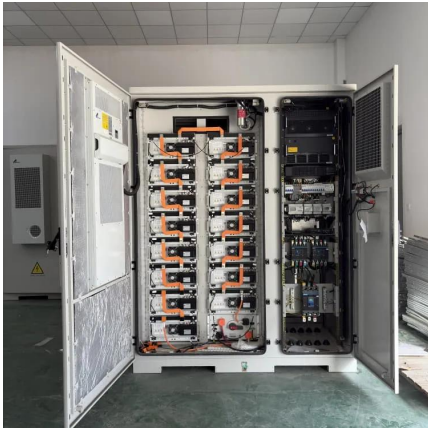
Why do we need a battery energy-storage technology (best)?

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).



## Future demand for energy storage batteries

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5-Year Forecast: Battery Innovations, Markets Drive BESS Energy storage is being driven by intermittent renewable energy, the growing demand for electrification in transport and industry, and the surge in ...



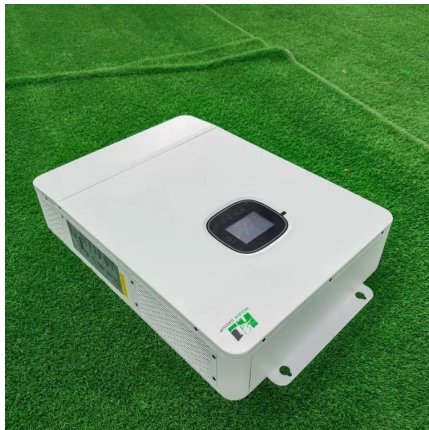
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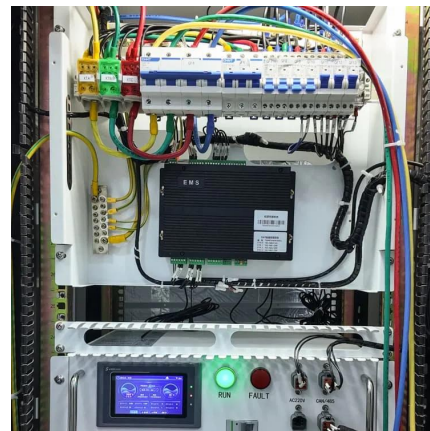
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The National Laboratory of the Rockies (NLR's) Storage Futures Study examined energy storage costs broadly and the cost and performance of LIBs specifically (Augustine and Blair, 2021). ...

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