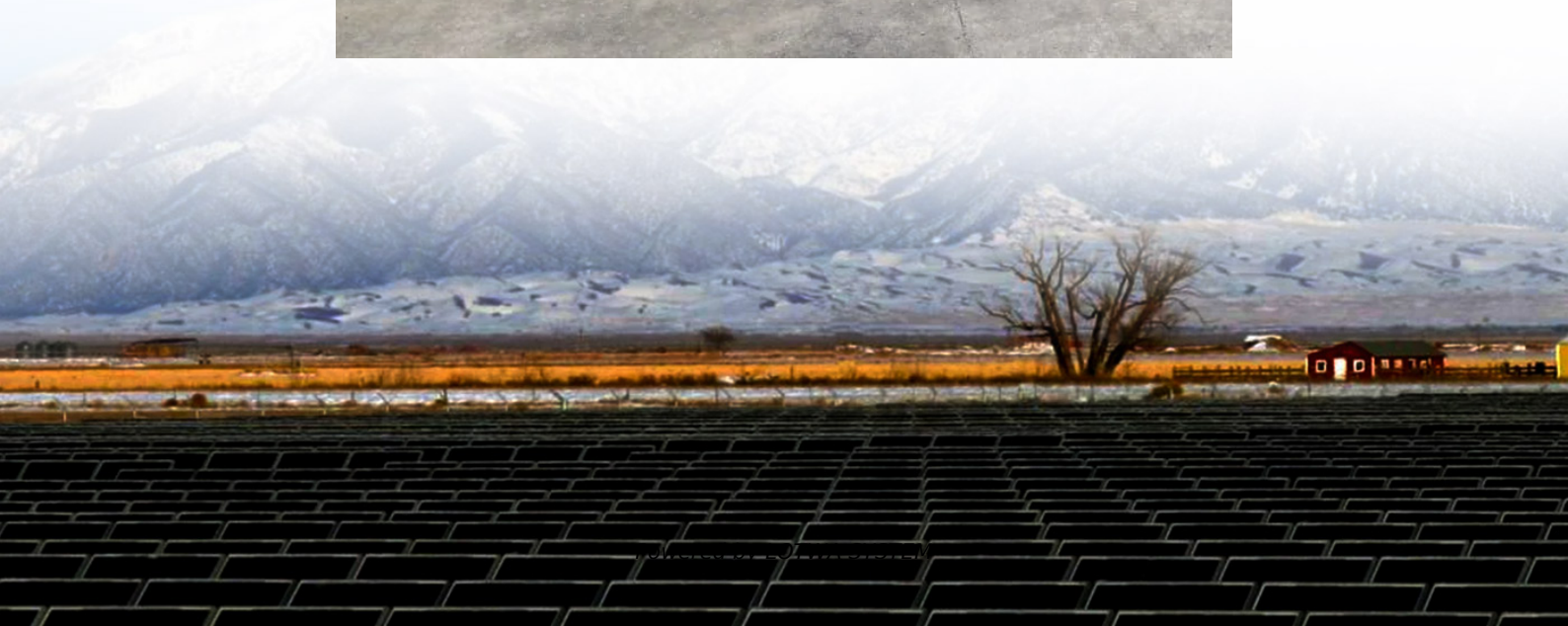


The vast majority of energy storage batteries on the field





Overview

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 is battery energy storage important?

As global efforts to reduce greenhouse gas emissions intensify, EVs and battery energy storage are critical to transitioning from fossil fuels to renewable energy sources like solar and wind. 13,14 Additionally, in consumer electronics, batteries allow for the portability and convenience that drive technological advancements.

How is battery technology transforming the energy landscape?

Breakthroughs in battery technology are transforming the global energy landscape, fueling the transition to clean energy and reshaping industries from transportation to utilities. With demand for energy storage soaring, what's next for batteries—and how can businesses, policymakers, and investors keep pace?

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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.



The vast majority of energy storage batteries on the field

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