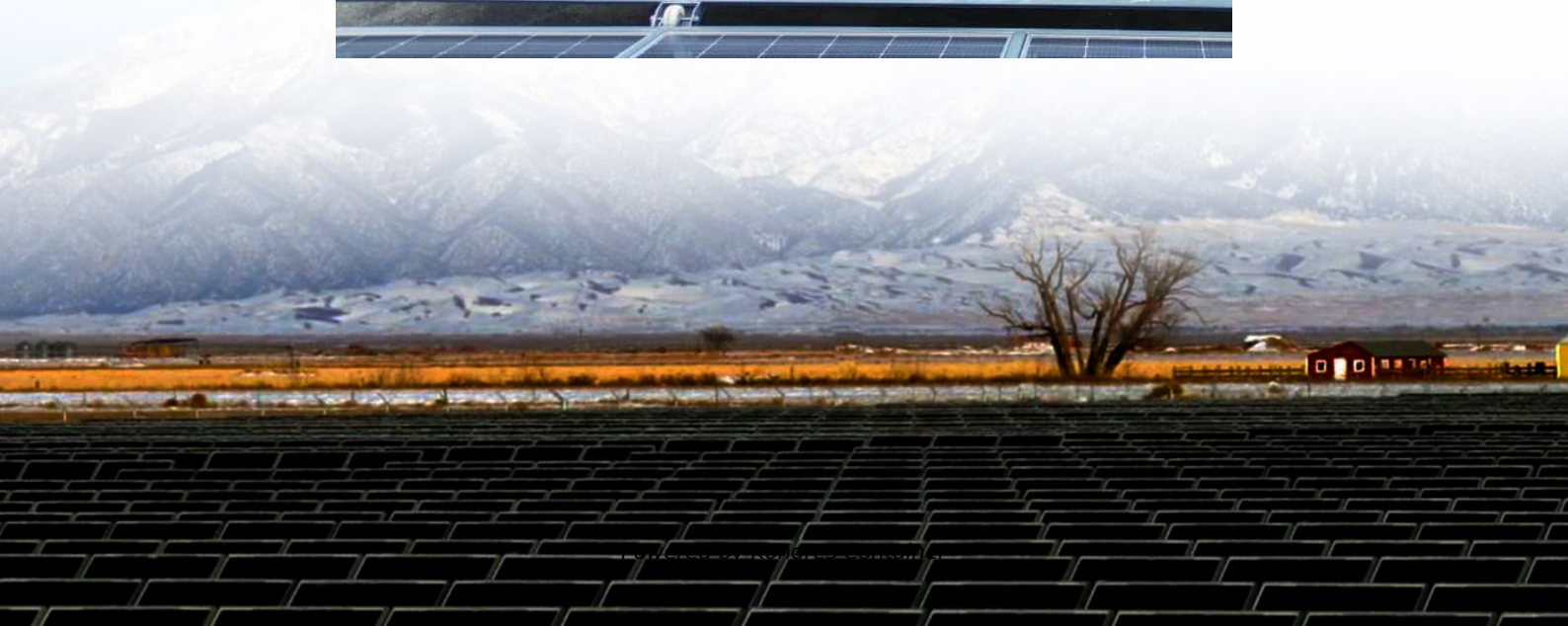


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Overview

What are energy storage batteries?

As the adoption of renewable energy storage continues to grow rapidly, the demand for efficient and reliable energy storage solutions has also surged. Energy storage batteries (lithium iron phosphate batteries) are at the core of modern battery energy storage systems, enabling the storage and use of electricity anytime, day or night.

Are solid-state batteries the future of energy storage?

Solid-state batteries, which show the merits of high energy density, large-scale manufacturability and improved safety, are recognized as the leading candidates for the next generation energy storage systems.

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.

What types of battery technologies are being developed for grid-scale energy storage?

In this Review, we describe BESTs being developed for grid-scale energy storage, including high-energy, aqueous, redox flow, high-temperature and gas batteries. Battery technologies support various power system services, including providing grid support services and preventing curtailment.

Are Zn-ion batteries suitable for large-scale energy storage?

Therefore, Zn-ion batteries with this configuration are regarded as the most promising solution for large-scale energy storage, specifically for storing electricity generated by wind and photovoltaic power systems.^{24,68,266} Fig.

18 Innovative strategies in battery configuration. (a) Decoupled battery based on the ion exchange membrane.

Can a manganese-hydrogen battery be used for grid-scale energy storage?

A manganese–hydrogen battery with potential for grid-scale energy storage. *Nat. Energy* 3, 428–435 (2018). 161. Wang, M. et al. Aqueous all-manganese batteries. *Energy Environ. Sci.* 16, 5284–5293 (2023). 162. Kim, H. & Kim, J. C. Opportunities and challenges in cathode development for non-lithium-ion batteries. *eScience* 4, 100232 (2024). 163.

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