

From iron to sodium, new battery materials are reshaping grid storage. Explore the breakthroughs powering the clean energy transition.

The future of sodium-ion batteries holds immense potential as a sustainable and cost-effective alternative to traditional lithium-ion batteries by addressing critical challenges in energy ...

GRID is working to bring no-cost battery storage technology to Californians most affected by wildfires and power shutoffs, including Tribal communities. Devastating wildfires and increased fire risk are ...

Lithium-ion batteries have become the leading energy storage solution, powering applications from consumer electronics to electric vehicles and grid storage. This review highlights ...

These limitations have spurred global efforts to explore alternatives, such as thermal and magnesium-based batteries, which promise better affordability, safety, and sustainability.

This Review discusses the application and development of grid-scale battery energy-storage technologies.

Companies like Tesla, LG Energy Solution, and Contemporary Amperex Technology Co. (CATL) in China have driven this expansion. But lithium-ion isn't the endgame. The technology ...

This trend partly explains the growing demand for distributed energy storage systems, for example, the increasing adoption of household battery units paired with rooftop solar panels. For grid ...

In this post, we'll take a look two technologies for long-duration, grid-scale energy storage systems:

Compressed air energy storage (CAES) and other emerging technologies are gaining traction as safer, scalable alternatives to support renewable integration and grid reliability.

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