

Title: The future of new energy storage

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What is the future of energy storage?

Storage enables electricity systems to remain in balance despite variations in wind and solar availability, allowing for cost-effective deep decarbonization while maintaining reliability. The Future of Energy Storage report is an essential analysis of this key component in decarbonizing our energy infrastructure and combating climate change.

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.

Are energy storage systems positioned to solve the energy transition?

Clean power sources reached 40.9% of global electricity generation in 2024, marking a significant milestone in the energy transition. However, the inherent intermittency of these sources--the sun doesn't always shine, and the wind doesn't always blow--creates a fundamental challenge that energy storage systems are uniquely positioned to solve.

What is the role of storage in energy transition?

The essential role of storage in energy transition cannot be overstated. As renewable energy sources approach majority shares of electricity generation in many regions, storage becomes indispensable for maintaining grid stability, reliability, and efficiency.

Renewable energy storage represents one of the most critical technologies in our transition to a clean energy future. As we stand in 2025, the global energy landscape is rapidly ...

The energy storage industry walked a bumpy road in 2025, but eyes are turning toward 2026's tech stack. While lithium-ion remains dominant, pressure is building for longer ...

From rust to sand to gravity, new techniques are making it happen. Solar and wind energy systems require some means of saving power for times when the sun doesn't shine ...

Explore the Future of energy storage--discover key technologies, market trends, and innovations powering the clean-energy transition.

As advancements in the field progress and costs decline, energy storage is positioned to become a cornerstone of a sustainable energy future.

Breakthroughs in battery technology are transforming the global energy landscape, fueling the transition to clean energy and reshaping industries from transportation to utilities.

Explore the future of energy storage technologies beyond lithium-ion. Discover how new battery and storage tech are shaping a clean, renewable energy grid in 2026.

Global demand for energy storage is surging. Lithium-ion leads today, but new contenders like sodium-ion, flow, and gravity ...

From rust to sand to gravity, new techniques are making it happen. Solar and wind energy systems require some means of saving ...

Energy storage beyond lithium ion explores solid-state, sodium-ion, and flow batteries, shaping next-gen energy storage for EVs, grids, and future power systems.

MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids.

Global demand for energy storage is surging. Lithium-ion leads today, but new contenders like sodium-ion, flow, and gravity systems are shaping the future grid.

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