

Future growth of energy storage batteries

ESS



Overview

Established technologies, such as lithium-ion batteries, and emerging solutions, like organic water-based flow batteries, will drive this eight-fold increase in energy storage capacity over the next five years. 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. To facilitate the rapid deployment of new solar PV and wind power that is necessary to triple renewables, global energy storage capacity must increase sixfold to 1 500 GW by 2030. Batteries account for 90% of the increase in storage in the Net Zero Emissions by 2050 (NZE) Scenario, rising 14-fold. Energy storage is being driven by intermittent renewable energy, the growing demand for electrification in transport and industry, and the surge in hyperscalers and artificial intelligence. Energy storage is a lucrative and growing sector.

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[5-Year Forecast: Battery Innovations, Markets Drive BESS](#)

Established technologies, such as lithium-ion batteries, and emerging solutions, like organic water-based flow batteries, will drive this eight-fold increase in energy storage capacity over ...

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A new report highlights the rapid growth of battery energy storage in the United States

[Future of Energy Storage Systems](#)

Explore the future of energy storage systems and the top battery technology trends for 2025 shaping sustainability, efficiency, and power resilience.



[The Future of Energy Storage: Five Key Insights on Battery Innovation](#)

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



[The Future of Energy Storage: Innovations in Batteries and](#)

Recent advancements in lithium-ion technology have propelled batteries to new heights of efficiency, longevity, and charging capabilities. Yet, the future of energy storage extends beyond the confines of ...



[Solar, battery storage to lead new U.S. generating capacity additions](#)

In 2025, capacity growth from battery storage could set a record as we expect 18.2 GW of utility-scale battery storage to be added to the grid. U.S. battery storage already achieved record growth in 2024 ...



[Outlook for battery demand and supply - Batteries and Secure Energy](#)

Batteries are set to play a leading role in secure energy transitions. They are critical to achieve commitments made by nearly 200 countries at COP28 in 2023. Their commitments aim to transition ...



[Beyond Lithium: The Next Frontier In Energy Storage](#)

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.

[The Future of Battery Energy Storage: Driving Grid Stability and](#)

Battery Energy Storage: Stabilizing Grids and Creating Accessibility. Governments and companies are ramping up investments in renewable energy sources, particularly solar photovoltaic ...



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