



New energy storage for future industries





Overview

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.

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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-duration storage, safer chemistries and more resilient supply chains in the face of AI-driven load growth, data center demand.

From iron-air batteries to molten salt storage, a new wave of energy storage innovation is unlocking long-duration, low-cost resilience for tomorrow's grid. In response to rising demand and the challenges renewables have added to grid balancing efforts, the power industry has seen an uptick in.

Energy storage beyond lithium ion is rapidly transforming how we store and deliver power in the modern world. Advances in solid-state, sodium-ion, and flow batteries promise higher energy densities, faster charging, and longer lifespans, enabling electric vehicles to travel farther, microgrids to.

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.

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 transforming, with renewable sources like solar and wind power accounting for an increasingly larger share of electricity.

As the global energy landscape shifts, reliable energy storage is more crucial than ever. With renewable energy on the rise, investments in storage technologies have surged, reaching \$54 billion worldwide in 2024. This article explores the latest



trends, from lithium-ion dominance to vanadium flow.



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[Global Energy Storage Growth Upheld by New ...](#)

The global energy storage market is poised to hit new heights yet again in 2025. Despite policy changes and uncertainty in the world's ...

[Renewable Energy Storage: Complete Guide To Technologies](#)

Comprehensive guide to renewable energy storage technologies, costs, benefits, and applications. Compare battery, mechanical, and thermal storage systems for 2025.



[Top 10 Energy Storage Trends in 2025, StartUs ...](#)

Are you curious about which energy storage trends & startups will impact your business in 2025? Explore our in-depth industry research ...



[The Future of Energy Storage](#)

With renewable energy on the rise, investments in storage technologies have surged, reaching \$54 billion worldwide in 2024. This article explores the latest trends, from lithium-ion ...



The role of energy storage tech in the energy ...

There is a growing need to increase the capacity for storing the energy generated from the burgeoning wind and solar industries for ...



Top 10: Energy Storage Technologies

The top energy storage technologies include pumped storage hydroelectricity, lithium-ion batteries, lead-acid batteries and thermal energy storage Electrification, integrating ...



The most innovative companies for energy in 2025

Why Antora, Budderfly, and Infinitem are among Fast Company's Most Innovative Companies in the energy space for 2025.





[Top Technology Trends That Will Shape in 2026: Emerging Tech ...](#)

Key technology trends shaping 2026 include AI automation, clean energy breakthroughs, spatial computing, and emerging systems transforming work and daily life.



[SEIA Announces Target of 700 GWh of U.S. Energy Storage by ...](#)

-- The Solar Energy Industries Association (SEIA) is unveiling a vision for the future of energy storage in the United States, setting an ambitious target to deploy 10 million ...



[New Energy - Reliance , Aim to Build World's Leading New Energy And New](#)

RIL's aim is to build one of the world's leading New Energy and New Materials businesses that can bridge the green energy divide in India and globally. It will help achieve our commitment of ...



[Top 10 Energy Storage Trends & Innovations , StartUs Insights](#)

In this data-driven industry research on energy storage startups & scaleups, you get insights into technology solutions with the Energy Storage Innovation Map. These trends ...



Energy Storage Innovation Trends 2026

The top 5 energy storage innovation trends are Solid State Batteries, Smart Grids, Virtual Power Plants, Hybrid energy storage, and LDES.



10 cutting-edge innovations redefining energy ...

Here are ten notable innovations taking place across different energy storage segments, as highlighted in GlobalData's Emerging ...

5-Year Forecast: Battery Innovations, Markets ...

As new storage technologies like flow batteries gain traction and as the energy storage value chain becomes more localized and ...



Beyond Lithium: The Next Frontier In Energy ...

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



[Energy storage: 5 trends to watch in 2025](#) [. Wood Mackenzie](#)

The scene is set for significant energy storage installation growth and technological advancements in 2025. ...



[10 cutting-edge innovations redefining energy ...](#)

From iron-air batteries to molten salt storage, a new wave of energy storage solutions is set to unlock resilience for tomorrow's grid.

[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.



[2026 Renewable Energy Industry Outlook](#)

Deloitte's 2026 Renewable Energy Industry Outlook indicates that amid policy changes, the industry is likely to focus on building resilience



[What's next for battery technology in 2026 - pv magazine USA](#)

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 ...



[Future of energy storage: 7 Powerful Trends in 2025](#)

At COP29, world leaders recognized this potential by setting an ambitious target: we need 1,500 GW of storage capacity by 2030--a six-fold increase from today's levels. That's ...

[The Future of Energy Storage Technologies: Innovations and ...](#)

From managing grid demands to enhancing the use of solar and wind energy, innovative solutions in energy storage are shaping a sustainable future. Energy storage refers ...



[The Future of Energy Storage , MIT Energy Initiative](#)

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. Replacing fossil ...





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