

# **Where will new energy storage go in the future**





## Overview

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What is the future of energy storage?

The future of energy storage is unfolding before our eyes, reshaping how we power our world. It's like watching the early days of smartphones—we know we're witnessing something revolutionary, but the full impact is still unfolding. For those wondering where this technology is heading, the trends are clear and exciting.

What is driving the energy storage industry forward in 2025?

Here are the Top 10 Trends driving the industry forward in 2025: 1. Advanced Lithium-Ion Batteries Lithium-ion batteries dominate energy storage, but their limitations— flammability, aging, and resource scarcity —are pushing researchers toward enhanced versions. Li-Polymer, Li-Air, and Li-Sulfur batteries increase efficiency and safety.

Why did energy storage surge in Q1 2025?

That makes Q1 2025 the biggest first quarter for energy storage in US history. The surge was led by utility-scale projects, which accounted for over 1.5 GW of the new capacity, a 57% jump compared to Q1 2024. Surging energy demand is putting the electric grid under strain,” said John Hensley, SVP of markets and policy analysis at ACP.

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.

What will storage be like in 2025?

Europe saw a pivotal moment when the grid-scale segment experienced a



significant surge, surpassing the distributed segment for the first time. In Latin America, momentum was built as storage deployments increased by 42%. In 2025, emerging markets for storage will be on the rise.

Is energy storage at a crossroads?

The Q1 2025 results demonstrate the demand for energy storage in the US to serve a grid with both growing renewables and growing load,” said Allison Weis, global head of energy storage at Wood Mackenzie. “However, the industry stands at a crossroads, with potential policy changes threatening to disrupt this momentum.”



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

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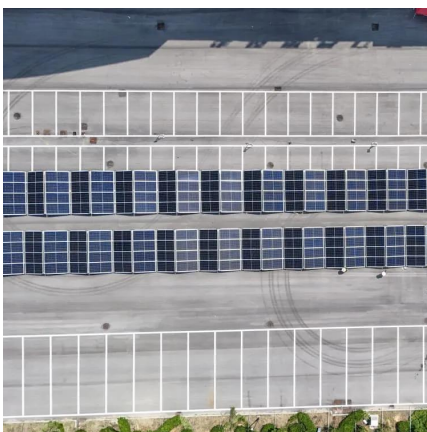
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### New energy storage technologies hold key to renewable transition

The Long Duration Energy Storage Council, launched last year at COP26, reckons that, by 2040, LDES capacity needs to increase to between eight and 15 times its current level ...

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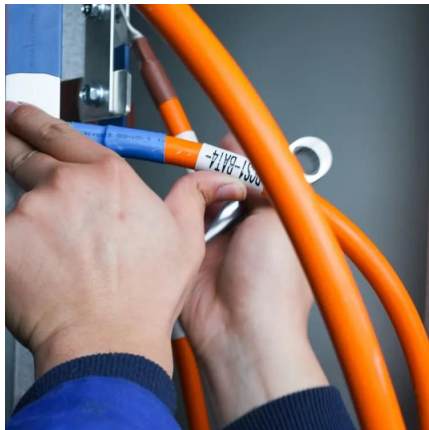
From next-gen potassium-ion batteries to innovative battery recycling techniques, these





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Explore the Top 10 Energy Storage Trends in 2025. Discover how these innovations drive efficiency in the sector.

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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.

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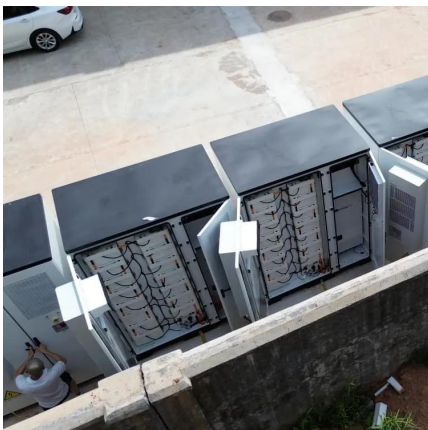
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In the near term, the report expects 15 GW/49 GWh of new storage capacity to be installed across all segments in 2025, with utility-scale installations projected to grow 22% year ...

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## [Advancements in large-scale energy storage ...](#)

4 SUMMARY The selected papers for this special issue highlight the significance of large-scale energy storage, offering insights into the cutting ...

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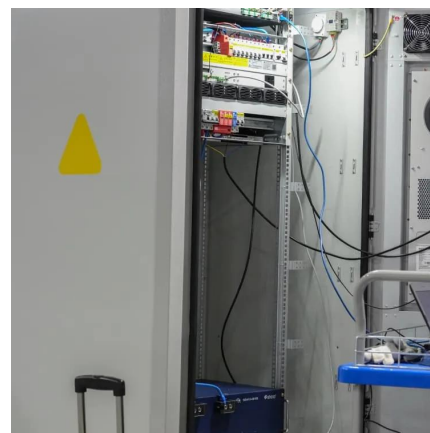
Breakthroughs in battery technology are transforming the global energy landscape, fueling the transition to clean energy and reshaping industries from transportation to utilities.

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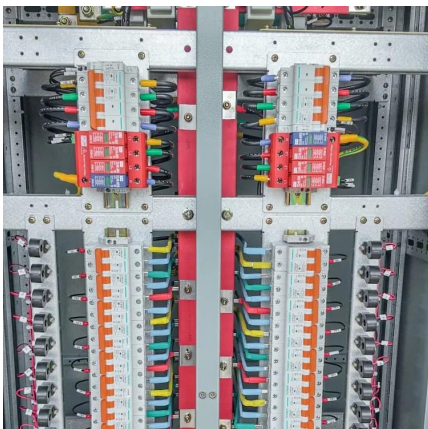
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## [Unlocking the Future of Energy Storage in 2025 A...](#)

As we dive into 2025, the competition to shake up energy storage is really heating up! There's a lot of buzz around the benefits of lithium-ion versus solid-state batteries. For a ...

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## The Future of Energy Storage

Foreword and acknowledgments The Future of Energy Storage study is the ninth in the MIT Energy Initiative's Future of series, which aims to shed light on a range of complex ...

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## Solar, battery storage to lead new U.S. generating capacity ...

Battery storage. 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 ...

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## Growth of Renewable Energy in the US , World Resources Institute

These upward trends signal that clean electricity sources are an increasingly vital part of the U.S. economy and power system, with renewable sources and battery storage making up the vast ...

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## The Future of Energy Storage: Lifecycles, Longevity, and Innovation

From next-gen potassium-ion batteries to innovative battery recycling techniques, these five startups are reshaping energy storage.

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## [Storage Futures , Energy Systems Analysis , NREL](#)

The SFS--supported by the U.S. Department of Energy's Energy Storage Grand Challenge--was designed to examine the potential impact of energy storage technology ...

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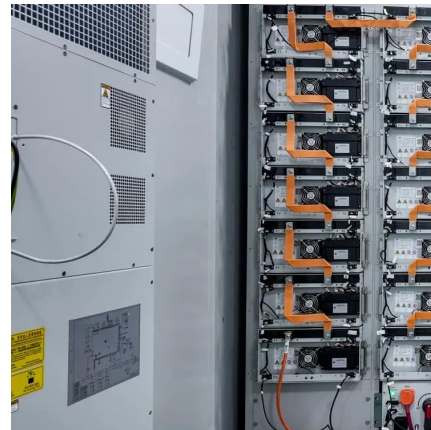
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### [The energy department said wind and solar capacity is](#)

3 days ago· Musk touted a massive energy storage project in Australia designed to stabilize the grid and expand renewable use.

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