

New progress in battery energy storage



Overview

A flurry of grid-scale BESS project progress totalling more than a combined 1.5GWh in the past week, from Renalfa in Bulgaria, Engie in Romania, Nala Renewables in Finland and Metlen in Greece.

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The value of developers and optimisers in the BESS lifecycle, thinking about long-term risk and KPIs for maximising the asset have been key themes at the Battery Asset Management Summit UK & Ireland 2025. At RE+ 2025, the Chinese energy solution provider discusses modular design innovations.

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.

The global energy storage market is poised to hit new heights yet again in 2025. Despite policy changes and uncertainty in the world's two largest markets, the US and China, the sector continues to grow as developers push forward with larger and larger utility-scale projects. Since 2024.

Aug. 19, 2025 — Lithium battery recycling offers a powerful solution to rising demand, with discarded batteries still holding most of their valuable materials. Compared to mining, recycling slashes emissions and resource use while unlocking major economic . Aug. 2, 2025 — AI is helping scientists.

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Batteries News -

3 ???· May 15, 2025 -- A research team has unveiled a breakthrough in improving the performance of zinc-air batteries (ZABs), which are an important ...

Progress in Energy Storage Technologies and ...

This paper provides a comprehensive review of the research progress, current state-of-the-art, and future research directions of energy ...



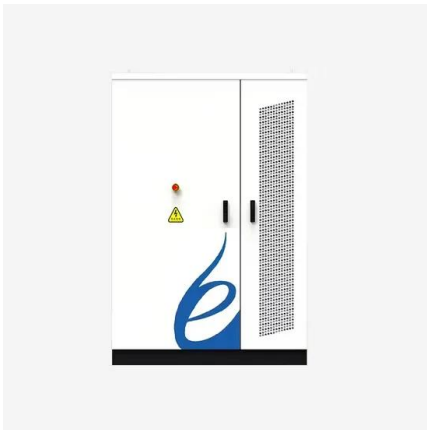
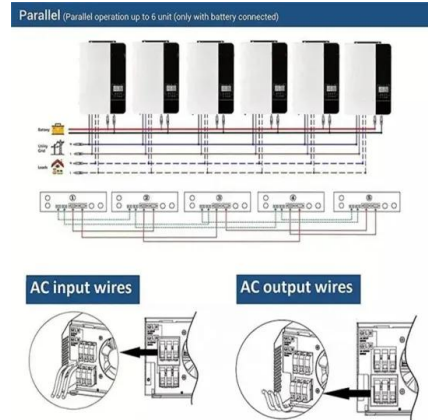
The role of energy storage tech in the energy transition

We need additional capacity to store the energy generated from wind and solar power for periods when there is less wind and sun. ...

California now has more than 13GW of battery storage

Installed battery storage capacity in California

has grown from just 500MW in 2018 to more than 13,300MW at the latest count. According to ...



Paving the way for the future of energy storage with solid-state

Rapid advancements in solid-state battery technology are ushering in a new era of energy storage solutions, with the potential to revolutionize everything from electric ...

Energy storage industry put on fast track in China

At an energy storage station in eastern Chinese city of Nanjing, a total of 88 white battery cartridges with a storage capacity of nearly 200,000 kilowatt-hours are ...



Battery Energy Storage & Microgrids

We are responding to the increase in intermittent renewable energies, by creating new solutions that maximize the efficient conversion, storage and integration of decarbonized energy.



New progress in 4 major energy storage projects

Recently, the progress of 4 energy storage capacity and production projects has been updated. Sunwanda On the morning of October 18, the signing cer



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Battery Energy Storage Systems (BESS): Pioneering the Future of Energy

Discover how Battery Energy Storage Systems (BESS) are revolutionizing the energy landscape, integrating renewable power sources, improving grid stability, and offering ...



A review of battery energy storage systems and advanced battery

This review highlights the significance of battery management systems (BMSs) in EVs and renewable energy storage systems, with detailed insights into voltage and current ...



Energy storage systems: A review of its progress and outlook, ...

Therefore, this review outlines the prospect and outlook of first and second life lithium-ion energy storage in different applications within the distribution grid system which ...



Cummins introduces new battery energy storage systems

Amid a recent flurry of new engine launches, Cummins has announced the addition of new BESSs (battery energy storage systems) to the company's power generation ...

Cleanview January 2025 report

Carbon-free sources dominated new capacity additions 95% of capacity added in 2024 was carbon-free (renewables, storage, and nuclear) Solar and batteries made up 83% of new ...





Revolutionizing energy storage: Overcoming challenges and ...

Transformative breakthroughs, such as solid-state electrolytes and emerging battery chemistries, offer glimpses of the future. The paper also examines the applications and ...

Energy storage

Now, an electrolyte design inhibits inorganic agglomeration in solid electrolyte interphases, unlocking fast-charging capabilities in high-energy-density lithium metal batteries.



Journal of Energy Storage , Vol 139, Part B, In progress (20 ...

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Global Energy Storage Growth Upheld by New Markets

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



Battery Energy Storage Systems Report

This information was prepared as an account of work sponsored by an agency of the U.S. Government. Neither the U.S. Government nor any agency thereof, nor any of their employees, ...

Advancements in large-scale energy storage technologies for ...

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



Big batteries that send clean energy to the grid soar in 2024 , AP ...

That's why at least half of battery storage facilities in the U.S. are co-located with, or in some other way support solar, an AP analysis of Energy Information Administration ...

Advancements in large-scale energy storage ...

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CPUC Issues Proposal to Enhance Safety of Battery Energy Storage ...

The proposal adds new safety standards specifically for the maintenance and operation of battery energy storage systems, as required by SB 1383. The proposal also makes explicit that the ...



Current situations and prospects of energy storage batteries

Abstract: This review discusses four evaluation criteria of energy storage technologies: safety, cost, performance and environmental friendliness. The constraints, research progress, and ...



[Energy Storage Outlook](#)

Global installed energy storage is on a steep upward trajectory. From just under 0.5 terawatts (TW) in 2024, total capacity is expected to rise ninefold to over 4 TW by 2040, ...



Recent advancement in energy storage technologies and their

There are some energy storage technologies that have emerged as particularly promising in the rapidly evolving landscape of energy storage technologies due to their ...



The Battery Breakthrough That Could Transform ...

Revolutionizing Energy Storage with Solid-State Batteries Rapid advancements in solid-state battery technology are paving the way for a ...

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