

# Ten Years of New Energy Storage



## Overview

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After a historic 2025, when global BESS capacity surpassed 250 GW and overtook pumped hydropower, momentum is set to accelerate in 2026. Key markets are expanding, emerging regions are stepping into the spotlight, and battery storage is increasingly replacing gas generation. New lithium-free energy storage technology generates electricity with no moving parts. Support CleanTechnica's work through a Substack subscription or on Stripe. US presidents come and go, but the renewable energy transition is permanent and inevitable. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. This amount represents an almost 30% increase from 2024 when 48.6 GW of capacity was installed, the largest. Explore the Full "Energy Storage" Deck (PDF) Explore the Full "Energy Storage" Deck (PPT) A battery storage array at a power plant in the Palm Springs desert.

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### Energy Storage Outlook: The expanding role of BESS in global ...

The battery energy storage market continues its rapid growth, reshaping power systems worldwide. After a historic 2025, when global BESS capacity surpassed 250 GW and overtook ...

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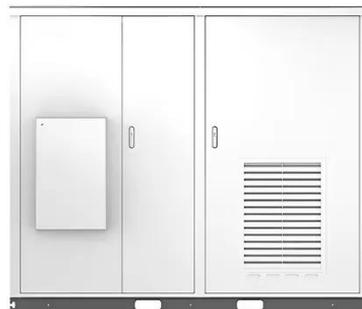
### The search for long-duration energy storage

Over the past few years, lithium-ion batteries emerged as the default choice for storing renewable energy on the electrical grid. The batteries work fabulously for discharging a few hours of electricity, ...

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### Future of energy storage: 7 Powerful Trends in 2025

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

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## 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.

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## New Long Duration Energy Storage Kisses Fossil Fuels Goodbye

A new long duration energy storage system that deploys molten tin for heat transfer has received \$20 million in Series A Plus funding.

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

We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U.S. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory ...

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## Next-generation energy storage: A deep dive into experimental and



Explores research trends and identifies key areas for innovation in next-generation battery technologies. Discusses battery applications in EVs, renewable energy storage, and portable ...

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## Technology Strategy Assessment

Modern TES development began with building heating and cooling and concentrated solar thermal technologies for power generation in the early 1900s and late 1970s, respectively [1].

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## 10 cutting-edge innovations redefining energy storage solutions

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

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## Energy-Storage.News

Energy-Storage.news Premium speaks with Noon Energy co-founder and CEO Chris Graves about the company's

approach to long-duration energy storage.

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