



# New Energy Storage Sub-Industry





## Overview

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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.

This article presents an analytical overview of 10 new energy storage companies offering innovative solutions enabling flywheel energy storage for high-efficiency kinetic energy retention, high power density cells for compact and powerful energy storage, and underground gravity batteries for.

Longer-duration storage, safety-driven procurement and FEOC compliance are starting to push alternative chemistries closer to scale. 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.

These industries are characterized by four key aspects: 1) Advancements in battery technology, such as solid-state and lithium-sulfur batteries, that promise longer lifespans and higher energy densities; 2) Integration of renewable energy sources, facilitating smoother transitions from intermittent.

A major energy storage installation is advancing in California as the Sacramento Municipal Utility District prepares to launch a 160-megawatt, 640-megawatt-hour battery energy storage system project. The work will focus on a decommissioned nuclear power plant site. Although a final project cost has.

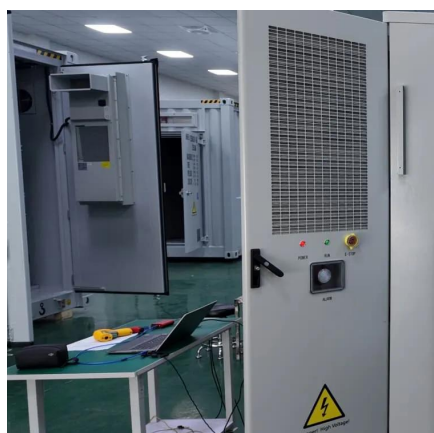
Energy Dome began operating its 20-megawatt, long-duration energy -storage



facility in July 2025 in Ottana, Sardinia. In 2026, replicas of the system will begin popping up on multiple continents. This giant bubble on the island of Sardinia holds 2,000 tonnes of carbon dioxide. But the gas wasn't.



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### Investment in Energy Storage Sub-Sectors: Where Smart Money ...

While hydrogen's had more comebacks than Star Wars sequels, new nanoporous materials could finally make H2 storage cost-effective. Germany's HyStorage project recently demonstrated ...

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### 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 ...

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### CO2 Batteries That Store Grid Energy Take Off Globally

These innovative CO2 batteries from Energy Dome promise long-duration energy storage for the grid, and reliable 24/7 clean power for data centers.

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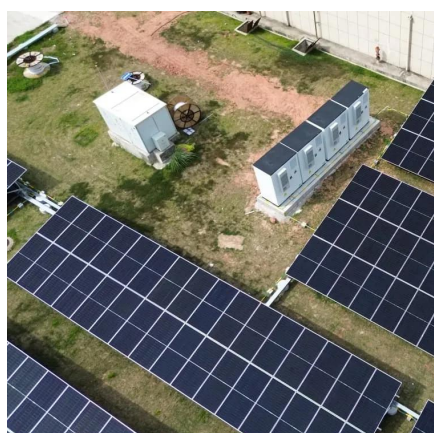
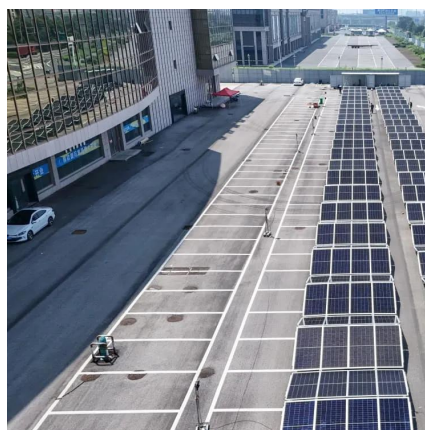
Massachusetts's Department of Energy Resources (DOER) has completed the evaluation of bids received in response to the Section 83E Storage request for proposals (RFP), selecting ...

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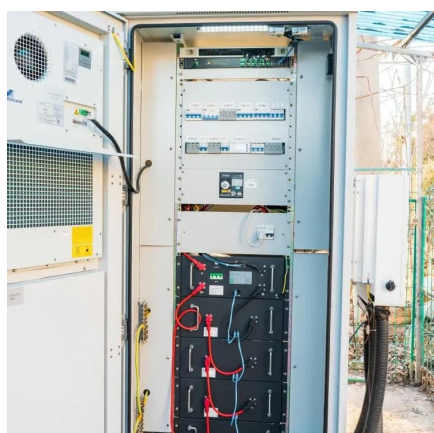
Here are ten notable innovations taking place across different energy storage segments, as highlighted in GlobalData's Emerging ...

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Since 2024, gigawatt-hour projects have been commissioned or started construction in not only the US and China, but also Saudi Arabia, South Africa, Australia, ...

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## **Battery storage projects surge as utilities prepare for next grid era**

Across the United States, battery energy storage is rapidly emerging from a niche technology into mainstream grid infrastructure. The growing attractiveness of battery energy ...

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## [industries? , NenPower](#)

As demand for clean energy solutions escalates globally, the new energy storage industries are poised to attract significant investments, ensuring that innovations can turn into ...

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