

The latest on integrated energy storage solutions in the United States







Overview

ARLINGTON, Va., Sept. 04, 2025 (GLOBE NEWSWIRE) -- Fluence Energy, Inc. ("Fluence") (NASDAQ: FLNC), a global market leader delivering intelligent energy storage systems, services, and asset optimization software, today announces the first shipment of domestic content lithium-ion battery storage systems using U.S.-made batteries, modules, thermal management systems, controls, and enclosures. What is the future of energy storage?

Renewable penetration and state policies supporting energy storage growth Grid-scale storage continues to dominate the US market, with ERCOT and CAISO making up nearly half of all grid-scale installations over the next five years.

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.

Why are energy storage resources important?

Energy storage resources have become an increasingly important component of the energy mix as traditional fossil fuel baseload energy resources transition to renewable energy sources. Currently 23 states, plus the District of Columbia and Puerto Rico, have 100% clean energy goals in place.

Which states are deploying more energy storage in Q1?

"We're now seeing significant deployment in emerging markets like Indiana, while states across the Southwest like Nevada and Arizona continue to expand their energy storage portfolio," said Noah Roberts, VP of Energy Storage at ACP. Residential storage also set a new record, with 458 MW installed in Q1, the most ever in a single quarter.



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.".

Will energy storage grow in 2024?

Allison Weis, Global Head of Energy Storage at Wood Mackenzie Another record-breaking year is expected for energy storage in the United States (US), with Wood Mackenzie forecasting 45% growth in 2024 after 100% growth from 2022 to 2023.



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US energy storage set a new record in Q1 2025 but the future

US energy storage set a Q1 record in 2025 with 2 GW added, but looming policy changes could put that growth at serious risk.

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State by State: An Updated **Roadmap Through the Current US Energy**

Energy storage resources have become an increasingly important component of the energy mix as traditional fossil fuel baseload energy resources transition to renewable energy ...





Energy Outlook 2025: Energy Storage

Energy storage is rapidly emerging as a vital component of the global energy landscape, driven by the increasing integration of renewable

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Integrated Energy Systems, Energy Technologies Area

The consortium focuses on thermal energy storage while researching the integration of



electrochemical battery energy storage solutions in buildings. Cross-cutting research will help ...

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American Energy Storage Innovations: Pioneers in Technology

Innovations in energy storage solutions are transforming the industry, driven by advancements in lithium-ion performance, system architecture, and renewable energy ...

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As reliance on renewables increases, effective storage solutions become indispensable for modernizing America's electrical infrastructure.

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Grid-Connected Energy Storage Solutions: Shaping the Power ...

Explore the evolution of grid-connected energy storage solutions, from residential systems to large-scale technologies. Learn about solar advancements, smart grids, and how ...



24 energy storage system suppliers tell us what's new ...

Energy Storage System (ESS) suppliers -- from battery manufacturers to smart panel providers -- tell Solar Builder magazine what's ...

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U.S. Environmental Protection Agency , US EPA

Website of the U.S. Environmental Protection Agency (EPA). EPA's mission is to protect human health and the environment.

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Eos Energy Enterprises and FlexGen are teaming up to produce America's first fully-integrated domestic energy storage solution.

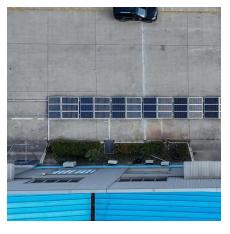
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Battery Energy Storage Systems Report

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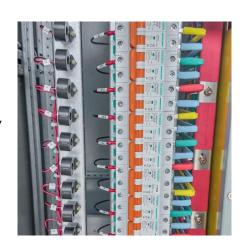
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U.S. solar and energy storage poised for explosive growth 2025

As reliance on renewables increases, effective storage solutions become indispensable for modernizing America's electrical infrastructure. While wind energy continues ...







LG Energy Solution Vertech Selected for 10 GWh of ...

LG Energy Solution Vertech has already lined up 10 GWh of grid-scale battery energy storage (ESS) projects in the US for the new year, ...

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US energy storage set a new record in Q1 2025 but ...

US energy storage set a Q1 record in 2025 with 2 GW added, but looming policy changes could put that growth at serious risk.

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<u>Top 10: Energy Storage Companies , Energy Magazine</u>

The company's innovative technology, integrated energy management solutions and a focus on reliability and safety has positioned it ...

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<u>Integrated Energy Storage in the United States</u>

The term "energy storage" describes a broad slate of technologies that primarily store electrical energy for later use, allowing utilities and electricity consumers to access it when most







Energy advancements and integration strategies in hydrogen and ...

Introduction Hydrogen, battery storage for renewable energy (RE) systems, and main motivation of this work The transition to renewable energy sources (RES) has brought ...

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While some regions of the United States have made progress integrating energy storage into energy resource portfolios, several organized ...

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<u>American Energy Storage Innovations:</u> Pioneers in ...

Innovations in energy storage solutions are transforming the industry, driven by advancements in lithium-ion performance, system ...

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<u>Microgrid and Integrated Systems</u> <u>Program</u>

DOE's remote microgrid research has primarily targeted applications in Alaska, where multiple deployments have made significant progress in demonstrating technical ...

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EVLO DELIVERS ITS FIRST BATTERY ENERGY ...

MONTRÉAL, Dec. 10, 2024 /PRNewswire/ - EVLO Energy Storage Inc. (EVLO), a fully integrated battery energy storage systems (BESS) provider and wholly ...

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Solving Challenges in Energy Storage

Critical Need for Energy Storage Advanced energy storage provides an integrated solution to some of America's most critical energy needs: electric grid modernization, reliability, and ...





Fluence Achieves Landmark Milestone with Delivery of First ...

These systems also help customers qualify for valuable tax incentives in-line with U.S. domestic content policy. As the demand for battery storage solutions continues to rise, ...

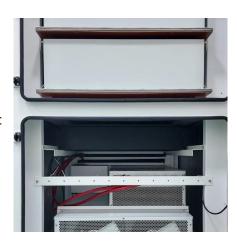
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New Report: Market Reforms to Harness Energy Storage and ...

While some regions of the United States have made progress integrating energy storage into energy resource portfolios, several organized electricity markets have yet to ...

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The State Of The US Energy Storage Market

Despite tariffs and interconnection issues in the supply chain, the US energy storage market is still seeing record-breaking growth.







Thermal Energy Storage in Commercial Buildings

Space heating and cooling account for up to 40% of the energy used in commercial buildings.1 Aligning this energy consumption with renewable energy generation through practical and ...

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State by State: A Roadmap Through the Current US Energy Storage ...

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Eos and FlexGen partnering on first US-made long duration storage solution

Eos Energy Enterprises and FlexGen are teaming up to produce America's first fully-integrated domestic energy storage solution.

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24 energy storage system suppliers tell us what's new in 2025

Energy Storage System (ESS) suppliers -- from battery manufacturers to smart panel providers -- tell Solar Builder magazine what's new in 2025.





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