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New energy system energy storage capacity

Overview

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 achieved record growth in 2024 when power providers added 10.3 GW of new battery storage capacity.

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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 report. This amount represents an almost 30% increase from 2024 when 48.6 GW of capacity was installed, the largest.

BloombergNEF expects additions to grow 35% this year, setting a record for annual additions, at 94 gigawatts (247 gigawatt-hours), excluding pumped hydro. The bumper year will be followed by a compound annual growth rate of 14.7% through to 2035, with annual additions reaching 220 gigawatts/972.

The US added a record 49GW of new solar capacity in 2024, as renewable power contributed to more than 1,000TWh of the country’s total electricity generation for the first time in a calendar year. This is one of the main takeaways from the ‘Sustainable Energy in America 2025 Factbook’, the latest.

The US energy storage market just posted its strongest Q1 ever, adding more than 2 gigawatts (GW) of capacity across all segments, according to the latest US Energy Storage Monitor from Wood Mackenzie and the American Clean Power Association (ACP). That makes Q1 2025 the biggest first quarter for.

Solar was the only primary source of generation that recorded capacity growth, which jumped 88% to 18.6 gigawatts (GW). As a result, in 2024, solar surpassed hydropower and nuclear as the fourth-largest source of installed capacity, after wind. 3 By the end of 2024, the US Energy Information.

A new, floating pumped hydropower system aims to cut the cost of utility-scale energy storage for wind and solar (courtesy of Sizable Energy). Support CleanTechnica's work through a Substack subscription or on Stripe. This year’s sharp U-turn in federal energy policy is a head-scratcher for any.

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Its modular design offers unparalleled flexibility, allowing you to scale your energy storage capacity according to specific project requirements. Whether you are managing a ...

The report also notes that the US commissioned 11.9GW of battery energy storage system (BESS) capacity last year, a 55% increase from the previous year, the fifth consecutive ...

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Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.

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Battery storage accounted for the second-largest share of total generating capacity additions, rising by 64% to 7.4 GW. 6 Excess wind and solar generation is the third-largest use ...

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

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, ...

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

US battery storage already achieved record growth in 2024 when power providers added 10.3 GW of new battery storage capacity. This growth highlights the importance of ...

Mainland China accounts for most of the global energy storage demand, driven in the near term by regional requirements for new utility-scale wind and solar projects to include ...

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