

New situation of energy storage in the west





Overview

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

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.

HOUSTON/WASHINGTON, D.C., March 19, 2025 — The U.S. energy storage market set a new record in 2024 with 12.3 gigawatts (GW) of installations across all segments, according to the latest U.S. Energy Storage Monitor report released today by the American Clean Power Association (ACP) and Wood.

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.

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

Two energy storage topics appeared to come up in conversation more than any other at the first day of RE+: US domestic content and the race for energy density increases. It's still too early to see the financial impact on energy storage suppliers in the wake of Trump's tariffs and legislation.

The global power mix has reached a critical point, and Rystad Energy expects a peak in fossil fuels in the power sector to be imminent, with a structural shift ahead of the industry. While power demand is expected to continue to see



strong growth in 2025 and beyond, the growth rate of low-carbon. 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.

How many GW of energy storage installations are there in 2024?

HOUSTON/WASHINGTON, D.C., March 19, 2025 — The U.S. energy storage market set a new record in 2024 with 12.3 gigawatts (GW) of installations across all segments, according to the latest U.S. Energy Storage Monitor report released today by the American Clean Power Association (ACP) and Wood Mackenzie.

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.

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.

Where is energy storage growing?

“Energy storage has entered a new phase of growth with its first year of double-digit deployment. We are increasingly seeing the industry’s growth



diversified across geographic regions, with 30% of storage capacity additions in Q4 2024 represented by New Mexico, Oregon, and Arizona,” said Kelsey Hallahan, ACP Sr. Director of Market Intelligence.



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How energy storage could solve the growing power crisis in the U.S. The opportunity is clear: with the right policy reforms, revenue mechanisms and investment ...

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[The U.S. Energy Storage Market: Why and Where it is ...](#)

When battery storage is paired with solar PV (known as solar-plus-storage), batteries can utilize solar energy whether or not the sun is ...



Acen seeks green light for 12-hour pumped hydro storage project ...

6 ???· The Philippines-based renewables and energy storage developer Acen Australia says its 800 MW, 12-hour duration Phoenix pumped hydro energy storage project planned for ...



2023 energy storage installation outlook: China, US, and Europe

During 2022 and 2023, the energy crisis led European distributors and installers to remain optimistic about residential energy storage, thus hoarding energy storage systems. ...



World Bank Group Provides \$465 Million to Expand Energy ...

Countries in the Economic Community of West African States (ECOWAS) will expand access to grid electricity to over 1 million people, enhance power system stability for ...





REPORT: Energy Storage's Meteoric Rise Breaks Another Record

"After another year of record deployment, energy storage is solidifying its place as a leading solution for strengthening American energy security and grid reliability in a time of ...



The Latest Trends and Breakthroughs in Energy Storage: What ...

Let's face it - energy storage has gone from being the "sidekick" of renewable energy to the MVP of grid stability. With global installations hitting 73.76 GW/168 GWh by 2024 in China alone [4], ...

A critical-analysis on the development of Energy Storage industry ...

With the combination of Internet, information technology and energy, energy storage industry plays an important role in the adjustment of energy structure with its abundant ...



(PDF) Current Situation and Application Prospect of Energy Storage

The application of energy storage technology can improve the operational stability, safety and economy of the power grid, promote large-scale access to renewable ...



[The Future of Energy Storage: Five Key Insights on ...](#)

Breakthroughs in battery technology are transforming the global energy landscape, fueling the transition to clean energy and reshaping ...



[Europe accelerates renewable energy growth: 89 GW ...](#)

The latest edition of the European Market Monitor on Energy Storage by LCP Delta and The European Association for Storage of Energy (EASE) highlights ...

[Present Situation and Prospects of Energy Storage ...](#)

Abstract--With the promotion of new power system construction, due to the real-time-balance characteristics of power system and the randomness and volatility of renewable energy, the ...





[Analysis of new energy storage situation](#)

Various application domains are considered. Energy storage is one of the hot points of research in electrical power engineering as it is essential in power systems. It can improve power system ...

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...

The Coverage and Intensity of Policies Continuing to Increase Technological breakthrough and industrial application of new type storage are included in the 2023 energy work of the National ...



Energy crisis: five questions that must be answered in 2023

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[The coolest new energy storage technologies](#)

For a good overview of the energy storage situation at the end of last year, focused on batteries collected to act at grid scales, read " 2024 was a fantastic year for energy ...



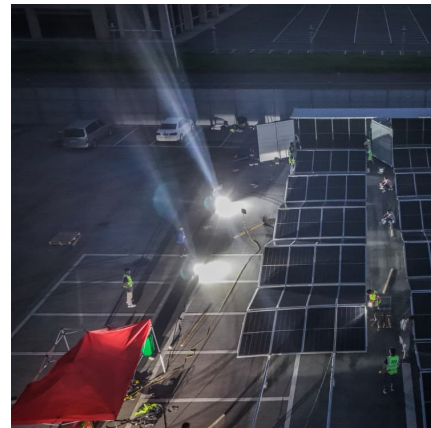
Energy Storage Outlook

While power demand is expected to continue to see strong growth in 2025 and beyond, the growth rate of low-carbon energy sources is now close to covering the entire ...



New energy technology research

Global research in the new energy field is in a period of accelerated growth, with solar energy, energy storage and hydrogen energy receiving extensive attention from the global research ...



CNESA Global Energy Storage Market Analysis--2020.Q3 ...

As of the end of September 2020, global operational energy storage project capacity (including physical, electrochemical, and molten salt thermal energy storage) totaled ...





[US Grid-Scale Energy Storage Continues Strong Year...](#)

"With 64 GW of new energy storage expected in the next four years, the market signal continues to be clear that energy storage is a critical ...



[China's renewable energy storage exports hit by US ...](#)

China's energy-storage industry is facing challenges in 2025 due to the escalating US-China trade war and tariffs affecting exports to the ...

[Energy storage safety and growth outlook in 2025](#)

The energy storage industry's trajectory in recent years has been nothing short of remarkable, driven by increased customer recognition of ...



[Storage is booming and batteries are cheaper than ...](#)

The U.S. energy storage market is stronger than ever, and the cost of the most commonly used battery chemistry is trending downward each ...



[Key findings - Africa Energy Outlook 2022 - Analysis](#)

Today's global energy crisis has underscored the urgency, as well as the benefits, of an accelerated scale-up of cheaper and cleaner sources of energy. Russia's invasion of Ukraine ...



Energy Storage Industry In The Next Decade: Technological ...

Introduction Driven by the global energy transformation and carbon neutrality goals, the energy storage industry is experiencing explosive growth, but it is also facing ...

Energy crisis: five questions that must be answered in ...

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