



Grid Energy Storage Project Statistics

Which states have the most grid-scale storage installations in 2025?

Texas and California continue to lead the market, with 61% of the total installed capacity in Q4, while the remaining 39% was installed across 13 states, expanding storage deployment beyond the leading markets. Grid-scale storage installations are forecasted to reach 13.3 GW in 2025.

Is energy storage the future of energy security & grid reliability?

"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 historic rising demand for electricity," said ACP VP of Energy Storage Noah Roberts.

How many battery energy storage projects are there?

The U.S. has 575 operational battery energy storage projects, using lead-acid, lithium-ion, nickel-based, sodium-based, and flow batteries. These projects totaled 15.9 GW of rated power in 2023, and have round-trip efficiencies between 60-95%.

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 role does energy storage play in a low-carbon power grid?

Through the SFS, NREL analyzed the potentially fundamental role of energy storage in maintaining a resilient, flexible, and low carbon U.S. power grid through the year 2050.

What are the different types of energy storage technologies?

Pumped hydro, batteries, hydrogen, and thermal storage are a few of the technologies currently in the spotlight. The global battery industry has been gaining momentum over the last few years, and investments in battery storage and power grids surpassed 450 billion U.S. dollars in 2024. Find the latest statistics and facts on energy storage.

Texas and California continue to lead the market, with 61% of the total installed capacity in Q4, while the remaining 39% was installed across 13 states, expanding storage ...

The DOE Global Energy Storage Database provides research-grade information on grid-connected energy storage projects and relevant state and federal policies. All data can be ...

18 hours ago; The utility currently has nearly 1,300 MW of energy storage currently supporting its grid, which includes 1,100 MW of battery storage-- spanning eight facilities-- and 200 MW of ...



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Noteworthy recent energy storage procurement Recently, several proposals have sought to use thermal energy storage to offset peak grid ...

The DOE Global Energy Storage Database provides research-grade information on grid-connected energy storage projects and relevant ...

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

Pumped storage hydroelectric projects have been providing energy storage capacity and transmission grid ancillary benefits in the United States and Europe since the 1920s (Energy ...

Harmony Energy's Pillswood project, at 98MW/196MWh it is the largest capacity BESS in Europe so far. Harmony Energy announced the project's completion in November ...

The following resources provide information on a broad range of storage technologies.

In this multiyear study, analysts leveraged NREL energy storage projects, data, and tools to explore the role and impact of relevant and emerging energy storage technologies ...

AEMO's "National Electricity Market (NEM) Scorecard" for March 2025 has found the pipeline of new clean energy and energy storage projects planned to replace aging fossil ...

In 2021, 1,595 energy storage projects were operational globally, with 125 projects in construction. 51% of operational projects are located in the U.S. 10 California leads the U.S. in power ...

The US battery storage market set another record in 2024, according to a new report from the American Clean Power Association and ...

Energy storage can have a substantial impact on the current and future sustainable energy grid. 6 EES systems are characterized by rated power in ...

The United States" residential energy storage market set an all-time quarterly growth record, with 346 MW of residential storage installed in the third quarter of 2024. This is ...

In this multiyear study, analysts leveraged NREL energy storage projects, data, and tools to explore the role and impact of relevant and ...

A render of a battery storage project from Innovo Group, which has teamed up with Iberdrola to deploy large-scale solar, wind and storage in Italy. ...

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Figures published earlier this year by research group Wood Mackenzie Power & Renewables - in association with ACP - showed 554MW grid-scale installs in Q1, while in Q4 ...

"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 ...

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 ...

The battery storage technologies do not calculate levelized cost of energy (LCOE) or levelized cost of storage (LCOS) and so do not use financial assumptions. Therefore, all parameters are ...

Texas and California continue to lead the market, with 61% of the total installed capacity in Q4, while the remaining 39% was installed across 13 ...

In 2024, developers built energy storage at a rapid clip, adding nearly 11 GW to the grid. The industry is poised to grow even faster in 2025.

Pumped hydro accounted for less than 70% for the first time, and the cumulative installed capacity of new energy storage(i.e. non-pumped ...

Executive Summary The rapid expansion of renewable energy has both highlighted its deficiencies, such as intermittent supply, and the pressing need for grid-scale energy storage ...



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