

Energy Storage Project Statistics





Overview

From just under 0.5 terawatts (TW) in 2024, total capacity is expected to rise ninefold to over 4 TW by 2040, driven by battery energy storage systems (BESS). Last year saw a record-breaking 200 gigawatt-hours (GWh) of new BESS projects coming online, a growth rate of 80%. 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?

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, driven by battery energy storage systems (BESS). Last year saw a record-breaking 200 gigawatt-hours (GWh) of new BESS projects coming online, a growth rate of 80%.

What types of energy storage are included?

Other storage includes compressed air energy storage, flywheel and thermal storage. Hydrogen electrolyzers are not included. Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.

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.



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.

How many MW of storage was installed in 2024?

145 MW of community-scale, commercial and industrial (CCI) storage was installed in 2024, a 22% increase over the previous year. California, Massachusetts, and New York accounted for 88% of installed CCI capacity. Forecasted installations for 2025 have increased 7% over last quarter’s forecast.



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Global electrochemical energy storage projects by ...

In 2021, over ***** energy storage projects worldwide involved lithium-ion batteries, one of the most efficient and cheapest electrochemical ...

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[DOE Global Energy Storage Database --](#)

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

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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 ...

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The story of US energy storage

If all of the energy storage-related requests for proposal (RfPs), site applications, and other utility proposals that were active at the end of 2024 ...



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Electricity explained Energy storage for electricity generation

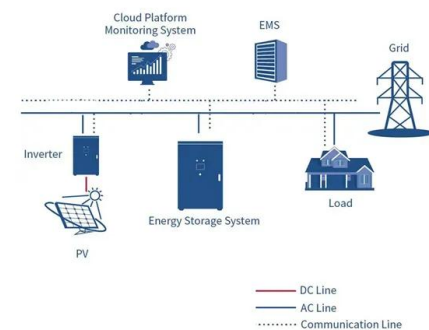
Energy storage for electricity generation An energy storage system (ESS) for electricity generation uses electricity (or some other energy source, such as solar-thermal energy) to charge an ...

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Energy Storage , ACP

Developers commissioned a total of 44 battery storage projects in Q3 2024, including 36 standalone projects and 8 paired with wind or solar capacity. Around 64% of year ...

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FLEXIBLE SETTING OF MULTIPLE WORKING MODES



DOE Global Energy Storage Database

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 ...

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Analysis on Recent Installed Capacity of Major ...

When it comes to economic considerations, energy storage projects in the United States, Europe, and other regions can yield greater ...

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[REPORT: Energy Storage's Meteoric Rise Breaks ...](#)

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 ...

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Canada: main energy storage projects capacity, Statista

All the largest energy storage projects in operation or planned in Canada as of 2024 used lithium-ion battery technology, except for Quinte project.

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1mwh (500kw/1mw)
AIR COOLING
ENERGY STORAGE CONTAINER



[European Energy Storage Inventory . JRC SES](#)

Dive into the map of Energy Storage Projects using interactive tools and filter options by status, technology, subtechnology, and more.

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Global installed energy storage capacity by scenario, ...

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

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National Blueprint for Lithium Batteries 2021-2030

Lithium-based batteries power our daily lives from consumer electronics to national defense. They enable electrification of the transportation sector and provide stationary grid storage, critical to ...

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REPORT: Energy Storage's Meteoric Rise Breaks Another Record

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 ...

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Solar, battery storage to lead new U.S. generating capacity ...

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 ...

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[UK energy storage deployments grew by record ...](#)

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

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Energy Storage Solutions: Latest Statistics and Trends

Discover the latest statistics and trends in energy storage solutions driving the green energy revolution.

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[Storage Futures , Energy Systems Analysis , NREL](#)

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 ...

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[REPORT: Energy Storage's Meteoric Rise Breaks ...](#)

Record Growth for Grid-Scale Storage While Q4 grid-scale energy storage deployments were down 20% compared to Q4 2023, this was ...

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Global battery energy storage capacity by country, Statista

The United States was the leading country for battery-based energy storage projects in 2022, with approximately ***** gigawatts of installed capacity as of that year.

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Global electrochemical energy storage shares by type ...

Lithium-ion batteries dominated the global electrochemical energy storage sector in 2022. They accounted for 95 percent of the total battery ...

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[Solar Market Insight Report Q3 2025 - SEIA](#)

4 days ago· Strong demand for new energy supply and rising power prices strengthen the market fundamentals for new solar projects in the long term. Overall, our low case is 18% lower than ...

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Summary of Global Energy Storage Market Tracking ...

China market: Pumped Hydro Storage share falls below 50% for the first time. Non-hydro Storage accumulative installations surpass 50GW for ...

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Global installed energy storage capacity by scenario, 2023 and 2030

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

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