

**JH Solar**

# U s energy storage installed capacity forecast



## Overview

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This battery storage update includes summary data and visualizations on the capacity of large-scale battery storage systems by region and ownership type, battery storage co-located systems, applications served by battery storage, battery storage installation costs, and small-scale battery storage.

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U.S. battery storage capacity has been growing since 2021 and could increase by 89% by the end of 2024 if developers bring all of the energy storage systems they have planned on line by their intended commercial operation dates. Developers currently plan to expand U.S. battery capacity to more than.

Each quarter, new industry data is compiled into this report to provide the most comprehensive, timely analysis of energy storage in the US. All forecasts are from Wood Mackenzie Power & Renewables; ACP does not predict future pricing, costs or deployments. Media inquiries should be directed to.

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.

According to the EIA, the newly added energy storage capacity with battery sizes exceeding 1MW in the United States soared to 3.3GW in the first seven months of 2023, marking an impressive 91% year-on-year increase. In a more specific breakdown, the month of July witnessed a remarkable surge with.

The record solar installation figures helped drive more than 50GW of total renewable energy capacity additions in 2024, with the wind sector adding an additional 5GW of new capacity. The report also notes that the US

commissioned 11.9GW of battery energy storage system (BESS) capacity last year, a.

Storage deployment in the United States grew across all segments and is forecast to grow another 25% in 2025, according to Wood Mackenzie. Across all segments, including residential, commercial and industrial, and utility-scale, energy storage had year-over-year deployment growth in 2024. “The. 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.

How big will energy storage be in 2025?

Grid-scale storage deployments alone are expected to reach 13.3 GW in 2025. Across all segments, Wood Mackenzie expects 15 GW of storage deployments, growing another 25% over the record year of 2024. “Energy storage has entered a new phase of growth with its first year of double-digit deployment.

How big is the energy storage capacity in the United States?

According to the EIA, the newly added energy storage capacity with battery sizes exceeding 1MW in the United States soared to 3.3GW in the first seven.

What is the future of energy storage in 2023?

In the first half of 2023, the United States saw significant growth in its utility energy storage capacity and reserves: According to S&P Global’s forecast, the new installed capacity of U.S. utility energy storage (battery storage) is projected to reach 3.50GW in Q3 2023, marking an 81% increase compared to the previous quarter.

What is the US energy storage monitor?

A few tips before you get started. The US Energy Storage Monitor is a quarterly publication of Wood Mackenzie Power & Renewables and the American Clean Power Association (ACP). Each quarter, new industry data is compiled into this report to provide the most comprehensive, timely analysis of energy storage in the US.

How many GW of battery energy storage system commissioned last year?

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 year of record-breaking additions. That is across all segments including grid-scale, commercial & industrial (C&I) and residential.

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### U.S. energy storage installations grow 33% year-over-year

Texas and California continued to lead the grid-scale storage market and represented 61% of total installed capacity in the fourth quarter. The remaining 39% was ...

### U.S. battery capacity increased 66% in 2024

In the United States, cumulative utility-scale battery storage capacity exceeded 26 gigawatts (GW) in 2024, according to our January 2025 Preliminary Monthly Electric ...



### Global Energy Storage Market to Grow 15-Fold by ...

More ambitious policies in the US and Europe drive a 13% increase in forecast capacity versus previous estimates New York, October 12, 2022 - Energy storage installations around the world are projected to ...

### U.S. total solar capacity to double over three-year span

The Energy Information Administration said cumulative solar installations are expected to double from 91 GW to 182 GW from the end of

2023 to the end of 2026. ...

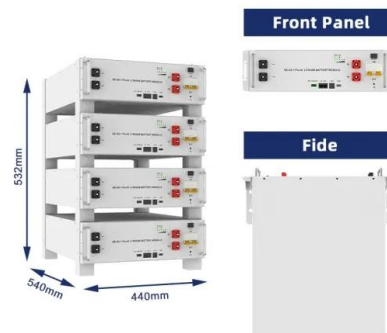


## US Grid-Scale Energy Storage Installations Surge, Setting New ...

According to Wood Mackenzie's five-year outlook for the U.S. energy storage market, total U.S. storage deployments will grow 42% between 2023 and 2024, but capacity ...

## Chart: US is set to shatter grid battery records this ...

The U.S. grid battery sector has been on a tear in recent years -- and California and Texas are the reasons why. Combined, the two states have installed nearly three-quarters of the country's total energy ...



## US installs more energy storage in Q1 2025 than ever before

The U.S. energy storage market added more than 2 GW across all segments in Q1 2025, marking the highest Q1 on record. The utility-scale segment led the way with more ...

## Global energy storage

Global energy storage capacity outlook 2024, by country or state Leading countries or states ranked by energy storage capacity target worldwide in 2024 (in gigawatts)



### **US deployed 11.9GW of storage in 2024, 18.2GW ...**

Data from market intelligence firm Rho Motion highlighted the US and Canada as the second largest regions, behind China, in globally installed battery energy capacity last year.

### **Anticipating a Surge: Global New Installations in ...**

In the U.S. market, during the first half of 2023, the new installed capacity of energy storage reached 2.5 GW/7.7GWh. Challenges related to the supply chain and delayed grid connections led to lower-than ...



### **US energy storage installations grow 33% year ...**

Texas and California continued to lead the grid-scale storage market and represented 61% of total installed capacity in the fourth quarter. The remaining 39% was installed in 13 states, said the report. ...

## EIA

This data is collected from EIA survey respondents and does not attempt to provide rigorous economic or scenario analysis of the reasons for, or impacts of, the growth in large-scale battery storage.



## US energy storage market breaks installation record in Q4 2023

The US energy storage market shattered previous records for deployment across all segments in the final quarter of 2023, with 4,236 megawatts (MW) installed over the ...

## World's energy storage capacity forecast to exceed ...

Cumulative installations will go beyond terawatt-hour mark by 2030, with lithium-ion providing majority, according to new forecasts.



## SEIA Announces Target of 700 GWh of U.S. Energy Storage by ...

According to Wood Mackenzie, there is 83 GWh of installed energy storage capacity in the United States, including nearly 500,000 distributed storage installations. Current ...

## United States energy storage industry

The energy storage sector in the United States has been thriving in the past years, with several applications to improve the performance of the electricity grid, from ...



## U.S. battery storage capacity will increase ...

The remarkable growth in U.S. battery storage capacity is outpacing even the early growth of the country's utility-scale solar capacity. U.S. solar capacity began expanding in 2010 and grew from less than 1.0 ...

## Energy Outlook 2025: Energy Storage

The COP29 commitment to increase global energy storage capacity six times above 2022 levels, reaching 1,500 gigawatts by 2030, will require governments to further ...

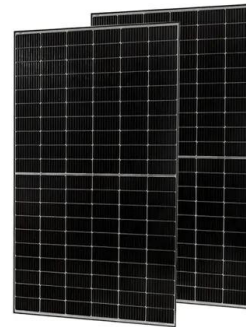


## 173GWh! Projections for Global Energy Storage

Following a surge in installed renewable energy capacity during the energy crisis, European countries now grapple with a growing issue of elevated wind and solar power ...

## REPORT: Energy Storage's Meteoric Rise Breaks ...

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 ...

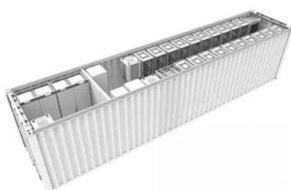


## Report: U.S. Energy Storage Market Adds 12.3 GW of Capacity in ...

A new report indicates that the nation's energy storage market added 12.3 GW of installed battery capacity in 2024. The latest U.S. Energy Storage Monitor report was released ...

## Energy storage deployment outlook U.S. 2024 ...

Annual power capacity deployment of energy storage systems in the United States from 2020 to 2023, with a forecast between 2024 and 2028 (in gigawatt-hours)



## US deployed 11.9GW of storage in 2024, 18.2GW ...

Data from market intelligence firm Rho Motion highlighted the US and Canada as the second largest regions, behind China, in globally installed battery energy capacity last year. The US state of California ...

## US energy storage installations grow 33% year ...

Over 12.3 GW and 37.1 GWh of energy storage was deployed in the U.S. in 2024, Wood Mackenzie and the American Clean Power Association (ACP) reported. This represents 33% and 34% growth ...



## REPORT: Energy Storage Market Continues ...

HOUSTON/WASHINGTON, D.C. June 25, 2025 -- According to the new U.S. Energy Storage Monitor developed by Wood Mackenzie and the American Clean Power Association (ACP), the ...

## U.S. energy storage installations grow 33% year ...

Texas and California continued to lead the grid-scale storage market and represented 61% of total installed capacity in the fourth quarter. The remaining 39% was installed in 13 states, said the report. ...



## Global Energy Storage Market Outlook

Energy storage capacity additions will have another record year in 2023 as policy and market fundamentals continue to propel the industry Data compiled March 2023. Source: S& P Global ...

## BNEF forecasts global energy storage market to ...

Energy storage installations around the world are projected to reach a cumulative 411GW by the end of 2030 - 15 times the 27GW of storage that was online at the end of 2021, according to the latest forecast from ...

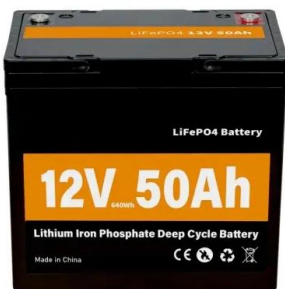


## U.S. battery storage capacity will increase significantly by 2025

The remarkable growth in U.S. battery storage capacity is outpacing even the early growth of the country's utility-scale solar capacity. U.S. solar capacity began expanding in ...

## US energy storage installations grow 33% year-over-year

Texas and California continued to lead the grid-scale storage market and represented 61% of total installed capacity in the fourth quarter. The remaining 39% was ...



## TrendForce: Global Installations Outlook for ...

Under the background of energy transition, global energy storage installation is growing vigorously, and many overseas countries and regions have released energy storage plans. In terms of market ...

## Energy Storage Reports and Data

Energy Storage Reports and Data The following resources provide information on a broad range of storage technologies. General U.S. Department of Energy's Energy Storage Valuation: A ...



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