

## SolarTech Power Solutions

# U S battery energy storage capacity



## Overview

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According to a recent report from the U.S. Energy Information Administration (EIA), utility-scale battery storage capacity is quickly growing, with capacity reaching 20.7 gigawatts by July 2024 and 21.4 gigawatts as of August 2024. In 2010, the U.S. had just 4 megawatts of battery storage capacity.

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. See more from Canary Media's "Chart of the week" column. Last year was fantastic for battery storage. This year is poised to be even better. The U.S. is. How much battery storage does the US have?

The third quarter alone accounted for 3.6 GW of these additions, representing a 52.5% increase compared to the same period in 2023. This remarkable growth pushed the nation's cumulative battery storage capacity to 26.3 GW. Most installed battery systems are designed for 1 to 4 hours of discharge, with many directly connected to solar farms.

Which states install the most battery storage in the United States?

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 storage capacity of over 26 GW. California has long held the top spot on large-scale battery storage installations.

How many GW of battery storage capacity did developers add?

By November 25, developers had added 9.2 GW of new capacity, setting a new benchmark for the industry. The third quarter alone accounted for 3.6 GW of these additions, representing a 52.5% increase compared to the same period in 2023. This remarkable growth pushed the nation's cumulative battery storage capacity to 26.3 GW.

What is the future of battery storage?

Looking further ahead, the U.S. battery storage market has a planned pipeline of 143 GW of non-hydro energy storage projects through 2030. This includes ambitious goals for the next few years, including: 33.8 GW in 2027. These figures highlight the industry's rapid evolution and its critical role in the energy transition.

Will 2025 be a good year for battery storage?

Last year was fantastic for battery storage. This year is poised to be even better. The U.S. is set to plug over 18 gigawatts of new utility-scale energy storage capacity into the grid in 2025, up from 2024 's record-setting total of almost 11 GW, per Energy Information Administration data analyzed by Cleanview.

Why is the battery storage market growing in 2024?

The rapid growth of the U.S. battery storage market in 2024 reflects broader efforts to decarbonize the energy system. By enabling the integration of renewable energy and improving grid reliability, battery storage is becoming an indispensable tool for achieving national and state-level clean energy goals.

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