



Battery storage capacity by 2025

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Developers plan to expand US battery storage capacity to more than 30 gigawatts (GW) by the end of 2024, according to the US Energy Information Administration (EIA).

Planned and currently operational US utility-scale battery capacity totaled around 16 GW at the end of 2023. Developers are expected to add another 15 GW of battery storage in 2024, and around 9 GW in 2025.

US battery storage capacity has been growing since 2021 and is anticipated to increase by 89% by the end of this year if all planned energy storage systems are brought online.

California and Texas currently account for the majority of battery capacity additions. Utilities are now mandated to install energy storage in California, and Texas has faster grid connection and permitting, which incentivizes developers.

California has the most installed battery storage capacity of any state by far, with 7.3 GW, followed by Texas with 3.2 GW. Both states have seen enormous solar and wind growth, which in turn spurs battery storage growth. The batteries store excess clean power in periods of low electricity demand, and release power when electricity demand is high.

The Biden administration's Inflation Reduction Act investment tax credits have played a huge part in spurring battery storage growth in the US. Developers expect to bring more than 300 utility-scale battery storage projects online in the US by 2025, and around half of the planned capacity installations will be in Texas.

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The US energy storage market hit an inflection point in 2020. The Energy Information Administration expects the deployment of grid-scale storage to pick up over the next three years.

Grid-scale energy storage capacity is expected to surpass 30 GW/111 GWh of installed capacity by the end of 2025, according to a new report by the US Energy Information Administration (EIA).

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Battery storage capacity in the United States was negligible prior to 2020, at which point storage capacity began to ramp up. As of October 2022, 7.8 GW of utility-scale storage assets began operating, with 1.4 GW of additional capacity to be added by the end of 2022. The EIA expects another 20.8 GW of battery storage capacity to be added from 2023 to 2025.

Growth in energy storage capacity is outpacing the pace of early growth of utility-scale solar. US solar capacity began expanding in 2010 and grew from less than 1.0 GW in 2010 to 13.7 GW in 2015. In comparison, the EIA sees energy storage increasing from 1.5 GW in 2020 to 30 GW in 2025.

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