



Developers expect to bring more than 300 utility-scale battery storage projects on line in the United States by 2025, and around 50% of the planned capacity installations will be in Texas. The five largest new U.S. battery storage projects that are scheduled to be deployed in California and Texas in 2024 or 2025 are:



Developers and power plant owners plan to significantly increase utility-scale battery storage capacity in the United States over the next three years, reaching 30.0 gigawatts (GW) by the end of 2025, based on our latest Preliminary Monthly Electric Generator Inventory.



Battery energy storage systems. As of the end of 2022, the total nameplate power capacity of operational utility-scale battery energy storage systems (BESSs) in the United States was 8,842 MW and the total energy capacity was 11,105 MWh.

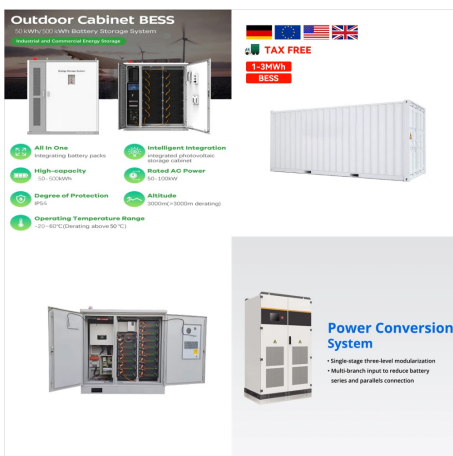
BATTERY ENERGY STORAGE MARKET



We found that in all AEO2022 scenarios, allowing battery storage to participate in both energy and capacity markets, rather than exclusively in one market or the other, resulted in significantly more deployment of battery storage systems through the year 2050.



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 ???



In 2023, 6.4 GW of new battery storage capacity was added to the U.S. grid, a 70% annual increase. Texas, with an expected 6.4 GW, and California, with an expected 5.2 GW, will account for 82% of the new U.S. battery storage capacity.

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Average battery energy storage capital costs in 2019 were \$589 per kilowatthour (kWh), and battery storage costs fell by 72% between 2015 and 2019, a 27% per year rate of decline. These lower costs support more capacity to store energy at ???



???2021 was a record year for battery additions in the United States in which battery capacity doubled by August. ???CAISO and ERCOT are taking up larger shares of operating battery capacity in the large scale energy storage market ???Batteries are being used for a wider range and variety of use cases as overall capacity grows



energy storage facilities since 2003 have been almost exclusively electrochemical, or battery storage. This report explores trends in both large-scale and small-scale battery storage systems. EIA defines

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Much of the recent increase in new storage capacity comes from battery energy systems co-located with or connected to solar projects. Five states account for more than 70% of U.S. battery storage power capacity as of December 2020. California has the largest share at 31% (506 MW) of the U.S. total.