

Overview

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We expect that wind power generation will grow 11% from 430 billion kWh in 2023 to 476 billion kWh in 2025. In 2023, the U.S. electric power sector produced 4,017 billion kilowatthours (kWh) of electric power. Renewable sources—wind, solar, hydro, biomass, and geothermal—accounted for 22% of.

Solar and battery storage continue to set installation records, while wind energy has plateaued. Solar surpassed 2023's record installations in 2024, adding an estimated 39.6 gigawatts (GW) of capacity, compared to 27.4GW in 2023. Installed solar capacity in the U.S. now totals about 220 GW, enough.

The US solar industry installed 7.5 gigawatts direct current (GW dc) of capacity in Q2 2025, a 24% decline from Q2 2024 and a 28% decrease since Q1 2025. Solar accounted for 56% of all new electricity-generating capacity added to the US grid in the first half of 2025, with a total of 18 GW.

Utilization rate of wind solar and energy storage

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