



# Annual electricity generation from solar power

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Electricity generation by the U.S. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U.S. electricity generation will ...

In 2024, net solar power generation in the United States reached its highest point yet at 218.5 terawatt hours of solar thermal and photovoltaic (PV) power. Solar power generation has...

As a result of new solar projects coming on line this year, we forecast that U.S. solar power generation will grow 75% from 163 billion kilowatthours (kWh) in 2023 to 286 billion kWh in 2025.

The world generated 2,109.76TWh of electricity from solar in the first nine months of the year, a 31% increase over the same period in 2025.

Clean power surpassed 40% of global electricity generation in 2024, driven by record growth in renewables, especially solar. Heatwaves contributed to high growth in electricity demand which resulted in a ...

Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy Information Administration's (EIA) latest release of its Electric Power ...

Top 10 states for electricity generated from solar (utility-scale and small-scale) and wind in 2024. Find data for all 50 states and Washington, D.C. in the full dataset.

In 2022, the average number of customers served by the electric power industry was 160,195,739. The average annual electricity use per residential customer in 2022 was 10,884 kilowatt-hours (kWh).

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes and ...



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This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this document.

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