



# Eight years of solar power generation

Climate Central's new report, *A Decade of Growth in Solar and Wind Power*, analyzed U.S. solar and wind energy data from 2014 to 2023 for all 50 states and the District of Columbia.

In our latest Short-Term Energy Outlook (STEO), we expect that U.S. renewable capacity additions--especially solar--will continue to drive the growth of U.S. power generation over the next ...

Overall, in 72% of the simulations done for robustness testing, solar makes up more than 50% of power generation in 2050. This suggests that solar dominance is not only possible but also...

For the first time ever, power generation from renewables and nuclear covered two-fifths of total global generation in 2024. Renewables collectively accounted for one-third of electricity generation, led by ...

China continues to dominate the global market, representing ~60% of 2023 installs, up 120% y/y. The rest of the world was up 30% y/y. The U.S. was the second-largest market in terms of cumulative and ...

Primary energy is measured using the "substitution method" (also called "input-equivalent" primary energy). This method is used for non-fossil sources of electricity (namely ...

To study America's growing renewable electricity capacity and generation, Climate Central analyzed historical data on solar and wind energy over a 10-year period (2014 to 2023).

The factors driving installation growth in 2024 varied for each segment. Commercial solar installed 2,118 MWdc in 2024, setting an annual record and growing by 8% year-over-year. California Net Energy ...

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt ...

We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest ...



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