



# 100 billion kilowatts of solar power generation

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Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U.S. utility-scale solar sector.

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.

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. ...

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 ...

The US Energy Information Agency (EIA) has forecast that power generation growth in the country up to 2027 will be driven predominantly by solar capacity additions, in its latest short-term ...

The U.S. Energy Information Administration predicts solar energy will be the leading force behind this year's growth in the electric power industry.

Solar continues to be the main fuel type for new additions, with over 30,000 MW of solar energy added in 2024, nearly double the amount added in 2023. This report also analyzes prospective generation ...

Solar developers are expected to increase the nation's total operational capacity by 38%. Total solar capacity is expected to grow from 95 GW at the end of 2023 to 131 GW at the end of 2024.

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