Solar power generation hours in the United States

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 ...

In August 2024, utility-scale generation of solar electricity averaged 63.1 gigawatthours between 10:00 a.m. and 6:00 p.m. each day in the Lower 48 states, 36% more than for the same hours in August 2023.

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 ...

In our STEO forecast, utility-scale solar is the fastest-growing source of electricity generation in the United States, increasing from 290 BkWh in 2025 to 424 BkWh by 2027.

Whenever we are calculating if solar panels pay off, we use the average peak sun hours at your location. To help with numerous calculations we made on The Green Watt, we have summarized the average ...

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 ...

Find up-to-date statistics and facts on renewable energy sources in the United States

In 2023, net generation of electricity from utility-scale generators in the United States was about 4,178 billion kilowatthours (kWh) (or about 4.18 trillion kWh). EIA estimates that an additional ...