



Total annual electricity generated by solar power

What percentage of US electricity is generated by solar power?

According to our Electric Power Annual, solar power accounted for 3% of U.S. electricity generation from all sources in 2020. In our Short-Term Energy Outlook, we forecast that solar will account for 4% of U.S. electricity generation in 2021 and 5% in 2022.

How many kilowatthours are generated by solar power?

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 73.62 billion kWh (or about 0.07 trillion kWh) were generated with small-scale solar photovoltaic (PV) systems.

How much solar energy will be generated in 2030?

Reaching an annual solar PV generation level of approximately 8300 TWh in 2030, in alignment with the Net Zero Scenario, up from the current 1300 TWh, will require annual average generation growth of around 26% during 2023-2030.

Which sector produces the most solar power?

However, utility-scale solar generation increased substantially in the United States during the past decade as average construction costs for solar power plants fell. In our long-term projections, the electric power sector continues to produce the most solar generation, increasing from 68% of total solar generation in 2020 to 78% in 2050.

How much has solar generation increased from 2014 to 2023?

Total peak monthly U.S. solar generation increased by a factor of 8.8 from 2014 to 2023. Note: EIA monthly data for 2023 are not final. Additionally, smaller utilities report information to EIA on a yearly basis. Therefore, a certain amount of solar data have not yet been reported. "U.S. Total" includes DPV generation.

What percentage of global electricity is generated by wind & solar?

Wind and solar generated over a tenth (10.3%) of global electricity for the first time in 2021, rising from 9.3% in 2020, and twice the share compared to 2015 when the Paris Climate Agreement was signed (4.6%). Combined, clean electricity sources generated 38% of the world's electricity in 2021, more than coal (36%).

Total solar (on- and off-grid) electricity installed capacity, measured in gigawatts. This includes solar photovoltaic and concentrated solar power. Source: IRENA (2024) - processed by Our World in Data. Last updated.



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