



How is solar power generation in the United States

The US clean electricity transition continued as wind and solar generated more than coal for the first time. Electricity demand growth sped up and solar generation rose more quickly than gas ...

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.

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 ...

Solar has become the largest renewable source of installed power capacity in the United States, surpassing wind after 27 consecutive months as the leading source of new grid additions, ...

Solar energy is the fastest growing and most affordable source of new electricity in America. As the cost of solar energy systems dropped significantly, more Americans and businesses ...

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...

Solar photovoltaic and solar thermal power plants provided about 4% of total U.S. utility-scale electricity and accounted for 18% of utility-scale electricity generation from renewable sources ...

The Energy Information Administration (EIA) reported that, in 2024, the United States added a record 30 gigawatts (GW) of utility-scale solar to the grid, accounting for 61% of new ...

The full report, A Decade of Growth in Solar and Wind Power, goes into more detail about state-level trends in utility- and small-scale solar. Download the data to see where your state ranks.

19 EXECUTIVE SUMMARY The American Public Power Association's annual report on current and imminent electricity generation capacity in the United States breaks down the nearly 1.3 terawatts of ...



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