

Title: Total solar power generation capacity

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How much solar capacity did the world add in 2025?

In the first six months of 2025, the world added 380 GW of new solar capacity -- 64% higher than during the same period in 2024, when 232 GW were installed. In 2024, it took until September for global solar capacity additions to surpass 350 GW, while in 2025, the milestone was reached in June.

What is the global power capacity of 2024?

At the end of 2024, global renewable power capacity amounted to 4 448 GW. Solar, in line with the previous year, accounted for the largest share of the global total, with a capacity of 1 865 GW. Renewable hydropower and wind energy accounted for most of the remainder, with total capacities of 1 283 GW and 1 133 GW, respectively.

How many GW of renewable power is there in 2024?

Energy Market & Energy Statistics IRENA published renewable power generation capacity statistics for the 2024 and for the past decade. The world's renewable power capacity reached 4,448 GW by the end of 2024. In comparison, the figure stood at 1,851 GW in 2015, indicating that over the past decade, renewable capacity has increased by 140%.

What percentage of renewable power capacity is offshore?

Offshore wind accounted for about 1.8% of total renewable power capacity and 7.0% of total wind capacity. Bioenergy: Bioenergy capacity expansion picked up again in 2024, with 4.6 GW added compared to +3.0 GW in 2023.

Aenert news. Energy Market & Energy Statistics IRENA published renewable power generation capacity statistics for the 2024 and for the past decade. The world's renewable power ...

New power generation capacity from wind, solar, and biomass currently accounted for 97.1% of new electricity consumption in society as a whole, supporting new electricity demand. ...

A new IEEE report shows solar dominated new generation in 2024, with 70% of added global capacity from PV and record installations in China and the United States.

Solar energy is the conversion of sunlight into usable energy forms. Solar photovoltaics (PV), solar thermal

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electricity and solar heating and cooling are well established solar technologies.

Hydropower accounted for 436 million kilowatts, wind power for 521 million kilowatts, solar power for 887 million kilowatts, and biomass power for 46 million kilowatts. Last year was the ...

Solar and wind energy continued to dominate renewable capacity expansion, jointly accounting for 96.6% of all net renewable additions in 2024. And 2024 marks the highest annual increase in ...

Combined total solar and wind power capacity hit a new record at 1,407GW, exceeding China's 14th Five Year Plan for Renewable Energy Development 2030 target of 1,200GW six years ...

World installed 380 GW of new solar capacity in first six months of 2025 Global solar installations are on track for another record year. In the first six months of 2025, the world added 380 ...

Pumped storage (note that this is included in total hydropower capacity, but not in total renewable capacity)
Marine energy Wind energy Onshore wind energy Offshore wind energy Solar ...

A strong growth in solar power is projected to drive the expansion of China's renewable energy generation capacity in 2026, even as average wind power utilization hours decrease slightly ...

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