Solar power generation capacity increased

How will global renewable power capacity increase in 2030?
Create a free IEA account to download our reports or subcribe to a paid service. Global renewable power capacity is expected to double between now and 2030, increasing by 4 600 gigawatts (GW). This is roughly the equivalent of adding China, the European Union and Japan's power generation capacity combined to the global energy mix.

Will solar power grow faster in 2025?
Solar PV accounts for almost 80% of the global increase, followed by wind, hydropower, bioenergy and geothermal. In more than 80% of countries worldwide, renewable power capacity is set to grow faster between 2025 and 2030 than it did over the previous five-year period.

How much does solar power cost in 2025?
Source: International Renewable Energy Agency, Renewable Capacity Statistics 2025 (March 2025). According to BloombergNEF, the electricity generation cost of new solar PV reached a record low of $36/MWh in 2024, partly thanks to continuous improvements in manufacturing and partly thanks to supply overcapacity.

What is the growth rate of solar energy generation in 2024?
In this context, electricity generation from solar PV grew by a record 475 TWh (30%), the largest increase of all electricity generating technologies by far (Chart 1). In 2024, the growth in electricity generation from solar PV alone surpassed that of all other renewable energy (RE) technologies combined.

The expansion of renewable capacity in 2024 was dominated by solar and wind energy, which together accounted for 96.6% of all net renewable additions. 2024 saw the largest annual ...

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. Almost 70 ...

In the past three months, the International Energy Agency, the International Renewable Energy Agency, and BloombergNEF published preliminary data for the power sector in 2024. These ...

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China"s cumulative installed power generation capacity reached 3.69 billion kilowatts by the end of August, marking a year-on-year increase of 18 percent, official data showed on Friday. ...

The increased power capacity would mark a major milestone in the country"s long-standing effort to build a cleaner power system.

China"s solar power sector saw steady expansion in 2025, contributing significantly to the growth of the nation"s overall power generation capacity, according to data released by the National ...

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 ...

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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.

China"s newly installed wind and solar power capacity nearly doubled year-on-year during the first half of this year, as the country ramps up its transition to cleaner energy sources, data from ...

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