

Total electricity generated by solar panels worldwide



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Solar accounted for 70% of new global power capacity in 2024

Approximately 70% of newly installed global electricity generating capacity for 2024 came from PV, with record installations in China (278 GW) and the U.S. (38 GW). Global PV installed

Renewable Capacity Highlights 2025

Solar, in line with the previous year, accounted for the largest share of the global total, with a capacity of 1 865 GW. Renewable hydropower¹ and wind energy accounted for most of the remainder, with total



35 Latest Solar Power Statistics, Charts & Data [2026]

What is the capacity of solar energy? The world's current solar energy capacity is 850.2 GW (gigawatts). This is the maximum amount of energy that all global solar installations combined

Solar PV

Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2.2 terawatts in 2024. Only in that last year, installations increased by almost 40



How Much Solar Energy Does the



World Generate?

How Much Energy Do Solar Panels Produce Worldwide? With global capacity surpassing 2,000 GW in 2024 and daily production reaching 2,075 GWh, solar energy is playing a crucial role in achieving

Solar Power by Country 2026

Data and analysis including a list of solar power in every country in the world, countries with the most solar power, and countries that generate the highest percentage of their electricity from solar power.



What percent of the world uses solar energy? 2026

As of 2023, solar energy was the world's third-largest renewable energy technology, behind wind and hydropower - nearly 5.5% of global electricity generation came from solar energy

Global solar generation up 31% year-on-year

The world generated 2,109.76TWh of electricity from solar PV in the first nine months of the year, more than the total solar generation reported in 2024.



Share of electricity generated by solar power

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

Solar power by country

The worldwide growth of photovoltaics is extremely dynamic and varies strongly by country. In April 2022, the total global solar power capacity reached 1 TW, increasing to 2 TW in 2024. The top



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