

The share of solar power generation in the world

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 ...

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.

In 2022, 4.6% of the world's electricity generation came from solar energy, an increase from the previous year. China consumed the largest share of the world's solar energy at 32.3%, with ...

Solar accounted for 81% of all new renewable energy capacity added worldwide. While remaining a modest contributor to overall electricity generation for now, solar's share rose to 7% in ...

OverviewEuropeGlobal use figuresAfricaAsiaNorth AmericaOceaniaSouth AmericaEuropean deployment of photovoltaics has increased considerably since the year 2010. Cumulative solar PV capacity in the European Union reached over 300 GW in 2024, with industry projections anticipating total capacity more than doubling by 2030, which would take solar power's share in EU electricity generation (9.2% in 2023) over 20%. Outside of the EU, similar growth in solar power is taking place in the United Kingdo...

Explore global renewable energy share with interactive data. Compare countries, track solar, wind and hydro growth, and understand the shift toward clean, sustainable power.

Many top-ranked countries reached high shares through hydro and geothermal -- mature, dispatchable renewables that can stabilize the grid. The most visible "transition story" in ...

Solar PV accounted for 17.6% of the world's electricity generation in the first nine months of 2025. Image: American Public Power Association, Unsplash.

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 ...

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 ...

The contribution of solar energy (including concentrating solar power (CSP) and solar photovoltaic (PV) power) to global electricity production, as one form of renewable energy sources, is ...

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