



Solar power generation major ranking

Our rundown of the countries around the world using the most solar energy, from Mexico to China

See which countries have installed the most solar power, and which ones have the fastest annual growth rates over the last decade.

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.

The top five countries are China, United States, India, Japan, and Germany, based on solar power generation and installed capacity. Emerging leaders include Brazil, Australia, and Spain, ...

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

OverviewGlobal use figuresAfricaAsiaEuropeNorth AmericaOceaniaSouth AmericaMany countries and territories have installed significant solar power capacity into their electrical grids to supplement or provide an alternative to conventional energy sources. Solar power plants use one of two technologies: o Photovoltaic (PV) systems use solar panels, either on rooftops or in ground-mounted solar farms, converting sunlight directly into electric power.

This dashboard ranks countries/areas to their renewable energy power capacity or electricity generation. The data can be further refined based on region, technology or year of interest.

In addition to LCOE, we present a set of other socio-economic indicators to show the solar power generation potential in the context of economic, human, and social development.

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 table provides the full Top 100 ranking using the latest harmonised full-year data available (2024, released/updated in 2025). This is a ranking of shares, not total production volumes.

This list of the Top 10 Solar Power Countries in the world is based on their total solar power capacity in gigawatts (GW) as of 2024. It shows how each country is using sunlight to power ...



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