

# Ranking of Spain in terms of solar power generation

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.

Currently, Spain ranks third in the EU for its share of solar energy in the electricity mix, behind Hungary and Greece. In terms of total solar generation, Spain is second only to Germany.

Historically, the average for Spain from 1980 to 2023 is 5.86 billion kilowatthours. The minimum value, 0 billion kilowatthours, was reached in 1980 while the maximum of 45.92 billion kilowatthours was ...

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As for the contribution of this source compared to total generation, Luxembourg is in first place, with 23.1% of its electricity generation coming from the sun, with Spain ranking in fifth place, coming in ...

Spain marked a clean energy milestone in July 2025, according to APPA Renewables' latest monthly report. Renewables generated 13,871 GWh, covering 55.1% of the national electricity mix. Solar PV ...

Spain's solar PV capacity reached 6 GW in 2024, making it the country's top power source with a 25.1% share, surpassing wind at 24.9%. Renewable generation grew 10.3%, ...

Data and analysis including a list of solar power in every ...

OverviewTimeline of developmentsSolar thermal power plantsPhotovoltaicsPolicies, laws and incentivesResearch and developmentExternal linksSpain is one of the first countries to deploy large-scale solar photovoltaics, and is the world leader in concentrated solar power (CSP) production. Spain is also one of the European countries with the most hours of sunshine. In 2022, the cumulative total solar power installed was 19.5 GW, of which 17.2 GW were solar PV installations and 2.3 GW were concentrated solar power. In the same year...

In fact, the solar capacity installed has more than quintupled in the last five years. In 2023, Spain was the sixth country worldwide in terms of new capacity additions.

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With 6 GW commissioned this year, photovoltaic energy has become the leading technology in Spain's generation fleet, accounting for 25.1% of total capacity. It is followed by wind power, which added 1.3 ...

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