

# How many watts of solar power does Spain generate





## Overview

---

Is solar energy the second largest energy source in Spain?

In 2023, solar photovoltaic energy, for the first time ever, became the second largest energy source, accounting for 20.8 % of the total installed capacity in the Spanish mainland (compared to 17.1 % in 2022) and surpassing combined cycle, which dropped to third place with a share of 20.5 % of the total installed generation capacity.

Does Spain have solar energy?

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. This impressive progress underscores Spain's commitment to renewable energy and its ability to leverage its natural resources for sustainable growth.

Why does Spain have so many wind and solar power?

The abundance of wind and solar in Spain's energy mix reflects natural geographical advantages and years of deliberate policy decisions to promote renewables over fossil fuels. Spain was one of Europe's renewable energy pioneers, installing more than 20 GW of wind power in the early 2000s.

Is solar energy a renewable resource in Spain?

Although wind is currently the most used renewable resource in the Mediterranean country, solar energy is growing at a very fast pace. 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.



## How many watts of solar power does Spain generate



### [Solar energy in Spain](#)

Oct 28, 2024 · Renewable energy is currently experiencing substantial development in Spain. With the goal of reaching climate neutrality by 2050, the country is implementing measures to ...

### [Spain: Energy Country Profile](#)

Spain: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on ...



### [Spain Electricity Generation Mix 2024/2025](#)

2 days ago · Over the past 12 months, from November 2024 to October 2025, Spain has made notable strides in clean electricity generation. A ...

## ENERGY PROFILE Spain

Indicators of renewable resource potential Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity ...



### [Solar energy in Spain](#)

Oct 28, 2024 · Renewable energy is currently experiencing substantial development in Spain. With the goal of reaching climate neutrality by ...



### [How much solar power does Spain generate?.. NenPower](#)

May 7, 2024 · The extensive solar resources available in Spain, combined with the reduction in costs for solar panels and installation, make it an ideal location for solar energy generation. ...



### [Solar becomes Spain's top power source in ...](#)

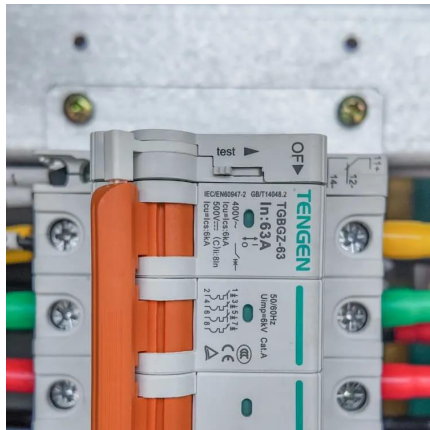
Mar 26, 2025 · Spain's solar PV capacity reached 6 GW in 2024, making it the country's top power source with a 25.1% share, surpassing wind at ...





Spain maintains solar leadership, but needs to ...

2 days ago · In order to attain its newly expanded goal of having 62 GW of wind power and 81 GW of solar power installed by 2030, Spain will need ...



Spain emerges as Europe's solar power leader

Jan 23, 2025 · Spain's solar surge: Leading Europe's renewable revolution Spain has solidified its position as a frontrunner in Europe's renewable energy movement, with its photovoltaic (PV) ...

Solar becomes Spain's top power source in 2024

Mar 26, 2025 · 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 ...



Spain Electricity Generation Mix 2024/2025

2 days ago · Over the past 12 months, from November 2024 to October 2025, Spain has made notable strides in clean electricity generation. A significant portion of Spain's electricity, more ...



### [Spain: Energy Country Profile](#)

Spain: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. This page provides the ...

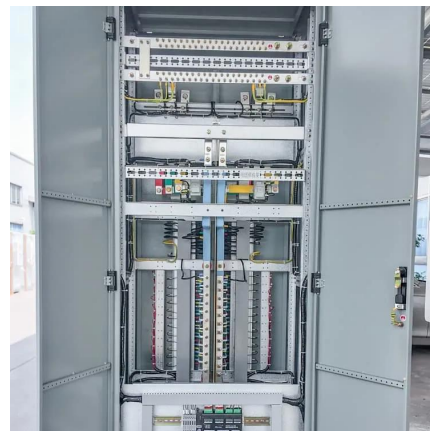


### [Spain Renewables Top 55% of Power in July. ...](#)

4 days ago · Spain marked a clean energy milestone in July 2025, according to APPA Renovables' latest monthly report. Renewables generated ...

### [Spain maintains solar leadership, but needs to](#)

2 days ago · In order to attain its newly expanded goal of having 62 GW of wind power and 81 GW of solar power installed by 2030, Spain will need to hasten its pace of renewables ...



### [Installed capacity . System reports](#)

3 days ago · In 2023, solar photovoltaic energy, for the first time ever, became the second largest energy source, accounting for 20.8 % of the total installed capacity in the Spanish mainland ...



[Spain Renewables Top 55% of Power in July. Solar PV Leads](#)

4 days ago · 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 ...



## Contact Us

---

For technical specifications, project proposals, or partnership inquiries, please visit:  
<https://www.eiei.pl>

## Scan QR Code for More Information



<https://www.eiei.pl>