

# Spanish solar power generation system





## Overview

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Does Spain have solar power?

Currently, Spain ranks third in the EU for its share of solar power in the electricity mix, following Hungary and Greece, and second in total solar generation after Germany. This growth reflects Spain's commitment to renewable energy and its strategic geographic advantage.

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.

Is Spain a leader in solar energy adoption?

In Spain, the progress has been even more dramatic. Photovoltaics reached an all-time high, accounting for 21% of electricity generation, nearly double the EU average. This marks a significant jump from 17% in 2023, solidifying Spain's position as a leader in solar energy adoption. What are photovoltaics?

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How much solar power will Spain have by 2030?

The national energy plan recognizes this importance and projects utility-scale PV capacity to reach 57ac GW by 2030, which is three times the estimated rooftop capacity (19GWac). •High PV Penetration: Spain is a leader in PV penetration.



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