



Electricity generation spain





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Spain Energy Profile 2024: Electricity Mix

A detailed look at Spain's 2024 electricity generation, with a nearly even split between renewables and conventional sources, and a leading role for wind and solar.

Electricity in Spain

Today, approximately one quarter of the country's energy needs is covered by electricity, although the share of electricity in final energy consumption has fluctuated strongly in the last five



[Spain Electricity Generation Mix 2025 , Low-Carbon ...](#)

Spain's electricity mix includes 21% Wind, 20% Solar and 20% Gas. Low-carbon generation peaked in 2024.

Total electricity generation , System reports

In 2024, Spain experienced a 0.5% decrease in electricity generation for the second consecutive year compared to the previous year, reaching a total of 262,247 GWh. This follows two consecutive years ...



Electricity sector in Spain

In 2023, renewable energy sources accounted for a record share of the electricity generated in Spain at 50.4%. [1] In the same year, wind farms overtook gas plants as the main source of electricity ...

[Renewables Reach Over 55% of Spain's Electricity Generation](#)

In Spain, renewable energy sources provided 55.7% of electricity generation in the first month of the year, increasing to 56.1% when estimated self-consumption is included, according to grid operator ...



Energy mix in Spain

In 2024, renewable energy accounted for 56.8% of electricity generation in Spain, surpassing the 51.2% recorded in 2023. Wind power was the main source in the Spanish electricity system, followed by ...



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