

Spain renewable electricity



Overview

Spain has a 20.8% renewable energy target in its total energy in order to meet the European Union renewable energy targets for 2020. By 2014 Spain had achieved a 16.2% share of total energy use. NREAP target for above 20.0% (2020)

Wind Power 31.7 GW
Bio Energy 1.2 GW
Solar Power 33.7 GW

Watch full video

Overview

Renewable energy in Spain, consisting of, wind, solar, and hydro sources, accounted for 25.0% of the (TES) in 2023. In the same year, the share of electricity generated from renewable. In the early 2000s, the growth of wind power contributed to an increase in Spain's renewable electricity production. By 2021, wind and solar energy made up 23% and 8% of total electricity generation, respectively. The Climate Change and Energy Transition Act was passed with the aim to comply with the goals of the and reach climate neutrality (full decarbonization and a 100% renewable energy grid). Initially, there was growing national interest in renewable energy, but a sharp decline in production and employment occurred after 2015. However, since 2018, the sector has shown signs of recovery, with renewed confidence.

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[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.

[Spain renewable energy: Impressive 53% Milestone in 2025](#)

In a significant milestone for Europe's clean energy transition, renewable sources contributed to 53.3% of Spain's total power generation in September 2025.

DETAILS AND PACKAGING



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 ...



[Electricity generation from renewable energies in Spain grows by ...](#)

Electricity generation from renewable energies in Spain grows by 10.3% in 2024, reaching record levels 56.8% of all electricity generated in Spain over the last year came from natural ...



[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 ...



[Total electricity generation , System reports](#)

Renewable electricity generation in Aragon in 2024 accounted for 88.8% of the total, marking the highest participation on record and positioning the region as the second in Spain in terms of share of ...



[Spain's renewable energy boom and Green Hydrogen leadership](#)

The dozens of initiatives that are spreading throughout Spain share this vision of productive integration of green hydrogen through electrolysis from renewable sources, as well as its ...

[Spain's renewables share climbs to 56.1% in Jan., Renewable Energy ...](#)

Spain's renewable sources accounted for 55.7% of electricity generation in January, rising to 56.1% when estimated self-consumption is included, grid operator Red Electrica de Espana (REE) ...



Renewable energy in Spain

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