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Title: How much wind power generation in Spain

Generated on: 2026-04-11 13:20:21

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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 ...

Spain installed 607.2 MW of new wind power capacity in 2023. These installations included 307 MW in Aragon, 92 MW in Castille La Man-cha, 60.48 MW in Catalonia, 50 MW in Extremadura and 36 MW ...

According to Red Eléctrica de España (REE), wind generation in the country reached an annual record of 62.569GWh by 2023, placing Spain as the second largest European power in terms of installed ...

Spain is one of the countries with the largest wind power capacity installed, with over 27 GW in 2020. In 2013, it had become the first country in the world to have wind power as its main source of energy. [1]

Returning to the 2024 data, wind power leads the national generation structure with 23.2%, followed by nuclear power, with a 20% share, solar photovoltaic (17%), combined cycle ...

Wind energy is present in all Spanish regions except Madrid, Ceuta and Melilla, with 47 provinces hosting wind generation. Twenty of these generate more than 1 TWh annually--enough to ...

In 2025, Spain portrays an impressive commitment to green energy, with low-carbon sources contributing to nearly 80% of its electricity generation. Wind energy, powering a significant segment ...

However, seven countries in Europe have achieved much higher levels of wind power penetration, including 41% of production in Denmark, 28% in Ireland, 24% in Portugal, 21% in Germany, and 19% ...

OverviewHistoryOffshoreRegional trendsIndustryFuture developmentOppositionSee alsoSpain was an early leader in development of wind power, ranking second after Germany by installed capacity until 2006, when it was surpassed by the United States. In November 2009, a wind storm caused wind farms to produce a peak of



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53% of total electricity demand (11.546 GW). This was surpassed in November 2011 with a capacity peak of 59% of power demand being generated by wind power.

With more than 30 gigawatts installed, wind is the largest source of electricity in the Mediterranean country. In 2023, wind turbines generated more than 60 terawatt hours of electricity,...

Wind power has become the second largest renewable energy generation source in Spain, with an installed capacity of 32,104 MW, a 4.1% increase in 2024 compared to 2023, totalling ...

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