
Small and medium-sized wind power generation systems in Spain

What is the share of wind energy in Spain's electricity generation mix?

The share of wind energy in the electricity generation mix amounted to around 23% in 2021. According to the Spain Wind Energy Association's (AEE) statistics in 2020, wind energy accounted for about 27,446 MW of accumulated capacity. Moreover, as of 2020, wind energy was the second-largest source in the renewable energy mix.

Why is wind energy a major source of electricity in Spain?

With more than 31,600 MW of installed capacity, wind energy is the primary source of electricity generation in Spain, currently covering 23% of demand. This is a significant milestone for the energy sector and reflects the country's commitment to the transition toward cleaner and more sustainable energy sources.

How much wind energy does Spain have?

According to the Spain Wind Energy Association's (AEE) statistics in 2020, wind energy accounted for about 27,446 MW of accumulated capacity. Moreover, as of 2020, wind energy was the second-largest source in the renewable energy mix. Spain ranks fifth in terms of wind power installations after China, the United States, Germany, and India.

Is 2023 a record year for wind power generation in Spain?

2023 was once again a record year for wind power generation in Spain, as it set a new historical annual maximum, this time reaching 62,569 GWh, which means an increase of 2.2 % over the previous maximum achieved in 2022, and 3.4 % above the production level of 2021. The chart has 1 Y axis displaying GWh. Range: 0 to 70000.

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 ...

Spain is synonymous with sunshine, making solar power a natural first thought for sustainable energy solutions. However, wind power generation is another powerful force ...

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That way, several smart grids have been commented and compared, finding that photovoltaic and wind power are the favourites energy generation technologies. Although ...

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