

What is the energy sector like in Spain?

As such, it is centred on the massive development of renewable energy, energy efficiency, electrification and renewable hydrogen. Notwithstanding its considerable progress to date on decarbonising and increasing the share of renewables in the electricity sector, Spain's total energy mix is still heavily dominated by fossil fuels.

How much energy does Spain import?

Spain's dependency rate on energy imports stood at roughly 74 percent in 2022, meaning that the country imported almost three-quarters of the total primary energy consumed, while only 25 percent came from domestic sources.

Why is Spain dominated by fossil fuels?

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What is Spain's energy and Climate Framework?

The current Spanish framework for energy and climate is based on the 2050 objectives of national climate neutrality, 100% renewable energy in the electricity mix, and 97% renewable energy in the total energy mix. As such, it is centred on the massive development of renewable energy, energy efficiency, electrification and renewable hydrogen.

How much solar power does Spain have?

In 2013, solar accounted for 3.1 percent of Spain's total electricity when capacity was 4,638 MW. By 2022 Spain had increased the solar capacity to 19,113 MW. In 2021, wind power provided 24% of Spain's total installed power generation capacity and 23% of total power generation. In 2023 it will reach 30 GW of capacity.

What are the main sources of energy in Spain?

Andorra Thermal Power Station (Teruel). Primary energy consumption in Spain in 2020 was mainly composed of fossil sources. The largest sources are petroleum (42.3%), natural gas (19.8%) and coal (11.6%). The remaining 26.3% is accounted for by nuclear energy (12%) and different renewable energy sources (14.3%).

Spain's journey towards renewable energy dominance is a remarkable example of how a country can transition to cleaner energy sources while reaping economic and environmental benefits. The growth of wind and solar power, coupled with government support and technological advancements, has positioned Spain as a leader in the global energy ...

Spain has released its draft report on its climate program goals and expects to increase renewable energy to 80 percent by 2030, doubling its capacity of wind power, among other increases in renewable technologies.

Spain: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. This page provides the data for your chosen country across all of the key metrics on this topic.

Spain's total installed energy capacity increased by 4.9% in 2022, reaching 119 GW. This increase was driven by renewable energy, which saw a 9.1% increase in installed capacity across the Iberian Peninsula (including Portugal). Within renewable capacity, photovoltaic (PV) energy saw the greatest increase in 2022, growing over 22% (4.4 GW).

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Renewable energy includes wind, hydro and solar power, biomass and geothermal energy sources. Spain has long been a leader in renewable energy, and has recently become the first country in the world to have relied on wind as its top energy source for an entire year.

In December 2021 Spain had a capacity of 4.1 GW using coal as the energy source, in 2022 consumption was 6.5Mt, although the plan is to phase coal out by 2030. Algeria is Spain's largest natural gas supplier. Amid the deterioration of relations with Morocco, Algeria decided not to renew the contract of the Maghreb-Europe Gas Pipeline

OBS Business School publishes the report Spain's energy sector - challenges in an unstable future, directed by the engineer and professor V&#237;ctor Ruiz Ezpeleta. The report consolidates the trend towards increasing energy production through renewable sources.

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