



Spain electric grid





Overview

Electricity consumption increased over many years until 2008. However, in 2023 Spain consumed 244,686 gigawatt hours (GWh) of electricity, a 2.3% decline from 2022. In 2008, Spain consumed 88% of the average electricity consumption for a European Union 15 country. In 2009, Spain exported about 3% of the electricity it produced. The volume of produced in 2009 was 5% greater than in 2004, and a.



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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.

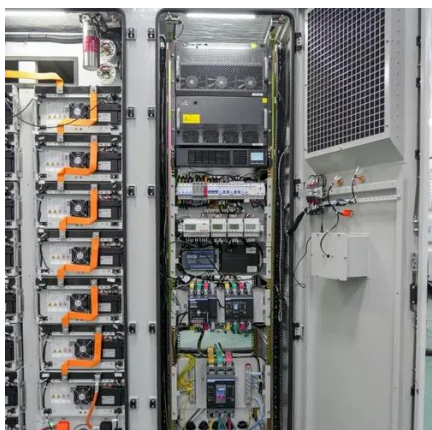
[Spain Electricity Grid Expansion: EUR16bn Plan Unlocks Demand for ...](#)

Spain's EUR16bn electricity grid expansion aims to ease congestion, boost renewables, and accelerate energy storage growth by 2030.



[Spain urged to boost grid investment « Euro Weekly News](#)

A modernised grid helps ensure Spain remains an attractive, affordable and sustainable destination for locals, retirees, long-term residents, digital nomads and second-home owners. The ...



Electricity transmission grid

In Spain, the transmission grid operates mainly at 400 kilovolts (kV) and 220 kV on the peninsula, while in the Balearics and Canary Islands it runs at 220 kV, 132 kV, and 66 kV.



Electricity sector in Spain

Overview
Electricity per person and by power source
Mode of production
Renewable energy in Spain

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[Spain , The Power Grid, the Overlooked Cornerstone of the ...](#)

Summary Spain's electricity faces significant challenges. While recent efforts have focused on expanding wind and solar capacity, effective grid integration is equally crucial for a ...



[Inside The Iberian Grid Collapse: What Really Went Wrong](#)

On April 28, 2025, the Iberian Peninsula experienced a dramatic blackout. At exactly 12:33:30, a cascading failure disconnected the grids of Spain and Portugal from the wider

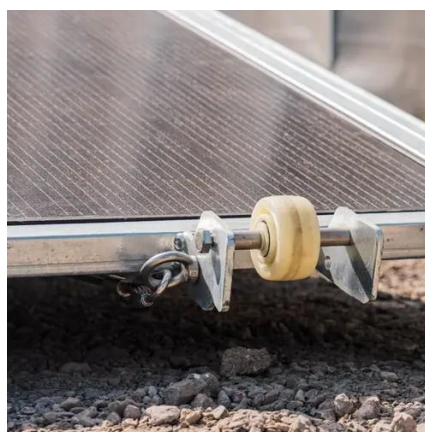


European



Electricity sector in Spain

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[Spain's \\$16bn, five-year plan to unclog its transmission grid](#)

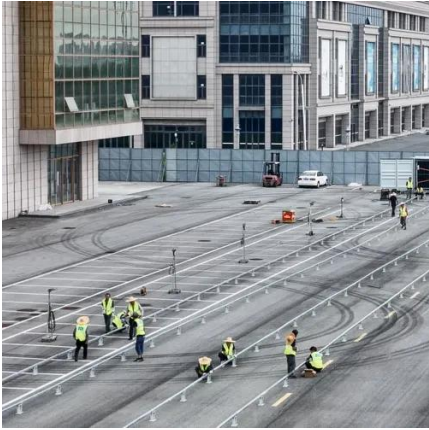
At an event in Madrid on Friday, the Spanish government presented the general outlines of its proposed Electricity Transmission Grid Planning strategy to 2030. Earlier in the week, capacity ...

Electricity in Spain

With a population of some 48 million inhabitants, Spain is one of the largest electricity consumers in the European Union. As of April 2025, it also had some of the lowest electricity prices



[The Spanish electricity system , System reports](#)



Information based on provisional data from January, 2025. Installed transformer capacity nationwide. Impact of the day-ahead and intraday market in the composition of the final price of energy. ...



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