

Lisbon electricity generation



Overview

Portugal's electricity mix includes 32% Hydropower, 23% Wind and 13% Gas. Low-carbon generation peaked in 2024. In 2025, Portugal is generating more than 70% of its electricity from low-carbon sources, showcasing a significant commitment to clean energy. Hydropower accounts for nearly a third, while wind contributes more than 23%. As for gas, there is a forecasted total consumption of 23 GWh, 64% in the conventional market and 36% for the production . These figures reflect electricity generation, which is one component of total energy consumption.

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Portugal , Electricity Production and Consumption , CEIC

Electricity Generation: Non-Renewable data is updated monthly, averaging 2,182.000 GWh from Jan 2010 (Median) to Mar 2026, with 195 observations. The data reached an all-time high

Portugal , Electricity Maps

Track real-time and historical electricity data worldwide - see production mix, CO2 emissions, prices, cross-border exports, and much more.



Energy industry in Portugal

Although fossil fuels, mainly gas, still play a significant role in total electricity production, Portugal is one of the global leaders in meeting the country's domestic electricity needs through

Energy in Portugal

Renewable energy includes wind, solar, biomass and geothermal energy sources. Energy from renewable sources has been increasing in Portugal since 2000 and has been given a boost with the



Energy in Portugal: Where does Portugal get its energy from?

Portugal made worldwide news when in February 2016, 95% of the electricity produced in Portugal

was sourced from renewable energy, including biomass, hydropower, wind power, and solar

Energy in Portugal

Sines power plant (hard coal) started operation in 1985-1989 in Portugal. According to WWF its CO2 emissions were among the top dirty ones in Portugal in 2007. That coal power plant went offline in January 2021, with the one remaining coal power plant in the country, closing at 7h15 on the 19th of November 2021. Maghreb-Europe Gas Pipeline (MEG) is a natural gas pipeline, from Algeria through Morocco



[Portugal Electricity Generation Mix 2025 , Low-Carbon Power Data](#)

In 2025, Portugal is generating more than 70% of its electricity from low-carbon sources, showcasing a significant commitment to clean energy. Hydropower accounts for nearly a third, while wind

REN Data Hub

The chart includes REN's forecast for the generation from all solar power plants, including all small decentralised generation injected into the public network.



[Renewables Supplied a Staggering 71% of Portugal's Electricity in 2024](#)

Renewable electricity production totalled 36.7 terawatt-hours (TWh), distributed mainly among hydropower (28%), wind energy (27%), photovoltaic energy (10%) and biomass energy (6%).

Electricity in Portugal

Portugal has the capacity to generate as much as 95 percent of its monthly electricity from renewable energy sources when wind and water are abundant. In April 2024, hydropower



Portugal

How much electricity is generated per person? This interactive chart shows per capita electricity generation. These figures reflect electricity generation, which is one component of total energy

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