

Why does Portugal need fossil fuels?

This is mainly due to the lack of fossil energy sources, which continues to impact the total consumption of primary energy significantly. The main fossil fuels that account for the primary energy supply are oil, natural gas, and coal. It is estimated that Portugal's fossil fuel dependence by 2030 will be around 65%.

Why is Portugal so dependent on imported energy?

Portugal ranks as the 11th EU member state most dependent on imported energy sources, with a decreasing dependence since 2000, when 85% of its energy was imported. This is mainly due to the lack of fossil energy sources, which continues to impact the total consumption of primary energy significantly.

What does Portugal's new energy and climate plan mean?

Portugal's new ambitious national energy and climate plan for 2030 and roadmap to carbon neutrality by 2050 targets at least 80% of electricity production coming from renewables and to further decarbonize the energy sector.

How many GWh of electricity is produced in Portugal?

Between January 1st and May 31st of 2023, 18,751 GWh of electricity were generated from Continental Portugal, from which 73.2% came from natural resources (sources (30.5% wind, 28.30% hydro, 7.6% bioenergy and 6.8% solar). Other sources include: Natural Gas (15.9%), Fossil CHP (4.7%), and Pumped Storage (6.2%).

According to the Portugal 2021 Energy Policy Review, the NECP indicated that to achieve 2030 targets, the installed capacity of renewable energy generation needs to grow from 14.1 ...

Energy storage is therefore essential if EU targets are to be met. Portugal's installed energy storage capacity is still predominantly based on hydro pumping, which currently stands at 4,164 GW year. ...

Portugal's renewable energy market is experiencing substantial and impressive growth, with solar PV production surging by 27% in September 2025 compared to the previous year.

Portugal's renewable energy market is strongly bolstered by its abundant natural resources and favorable geography. High solar irradiance, particularly in the southern regions, supports efficient ...

In Portugal, the share of renewable energy has been increasing - initially with a focus on hydro, wind and, more recently, solar energy - despite some fluctuations essentially due to the ...

Storage can increase self-consumption during non-solar hours, aligned with Portugal's 2030 goals (5,7GW). The seasonality of consumption in certain locations in Portugal, such as ...

The future of Portugal's power grid lies not only in generating more clean energy but in managing it intelligently. Storage is both the brain and the muscle of this new grid. The EUR100 million ...

The Portugal Energy Storage Market is primarily driven by the increasing integration of renewable energy sources such as solar and wind power into the grid. This integration has created the need for ...

PORTUGUESE STORAGE AS OF TODAY Portugal's energy-storage market is entering a new stage of maturity, combining grid-scale standalone batteries and hybrid (co-located) systems ...

What is Portugal's average energy consumption per person? When comparing the total energy consumption of countries, the differences often reflect variations in population size. It's useful to look ...

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