

How can Portugal reduce fossil fuel-based energy consumption?

Portugal has consistently reduced fossil fuel-based energy consumption by using cutting-edge technologies to diversify renewable resources for energy production. Benefits include more efficient use of resources, more sustainable mobility and greater security of supply.

How can Portugal meet growing energy demands in a sustainable way?

Meanwhile, the rapid expansion of hydroelectric and solar energy capacity is helping Portugal meet growing energy demands in a sustainable way. These efforts align with European Union objectives, such as the RePowerEU plan and the Renewable Energy Directive, which targets 42.5% renewable energy in total consumption by 2030.

Why is Portugal moving to a cleaner energy source?

This milestone also aligns with the country's broader energy transition goals, which began decades ago and saw a major turning point in 2021, when Portugal became one of the first European nations to cease coal-powered electricity production. This shift towards cleaner energy sources has not only benefitted the environment but also the economy.

What is Portugal doing to reduce oil demand?

Portugal is pushing to reduce oil demand and associated emissions through transport decarbonisation, with over EUR 10 billion of investments in electrified rail and public transport, favourable tax treatment for electric vehicles and support for charging infrastructure.

Why is wind energy important in Portugal?

Wind energy remains a crucial component of Portugal's electricity production, accounting for 25% of the total. Meanwhile, the rapid expansion of hydroelectric and solar energy capacity is helping Portugal meet growing energy demands in a sustainable way.

An open innovation program for startups to pilot innovative solutions to address energy transition challenges in the city of Lisbon. We are bringing Lisbon to the forefront of the energy transition movement with cutting-edge solutions to accelerate the transition to a low carbon economy and improve the citizen experience in the city.

According to the Portuguese Renewable Energy Association (APREN), renewable energy saved Portugal around EUR1.95 billion in fuel imports and EUR750 million in CO2 emissions permits in 2023. These figures underscore ...

Portugal's energy and climate policies aim to reach carbon neutrality primarily through broad electrification of energy demand and a rapid expansion of renewable electricity generation, along with increased energy

efficiency.

Portugal has generated significant international awareness in the field of energy. The Partner Country at this year's HANNOVER MESSE presents 13 innovative Portuguese companies with advanced technological solutions in renewable energies.

According to the IEA, the Azores' and Madeira's programmes to support the energy transition appear to be more ambitious than those for mainland Portugal, and these island regions can pioneer living labs to test innovative solutions, like storage, smart grids, electric mobility and integration of very high shares of renewables.

According to the Portuguese Renewable Energy Association (APREN), renewable energy saved Portugal around EUR1.95 billion in fuel imports and EUR750 million in CO2 emissions permits in 2023. These figures underscore the economic value of investing in renewables, in addition to the clear environmental benefits.

This article proposes technical solutions for reducing carbon dioxide emissions and increasing renewable energy in the Portuguese mainland energy system by 2050, considering the targets set by the government. An energy system modelling approach based on the Grey Wolf Optimiser and the EnergyPLAN software was introduced.

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