

European solar and wind power generation technology



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Overview

Wind and solar spearheaded the boom, accounting for a record 30 per cent of EU electricity and overtaking fossil fuels by just one per cent. While experts have praised the "rapid" transition to renewable energy, experts warn the EU's "outdated" grid is still holding back progress. EU fossil gas power fell for the fifth year running. A new report from energy think tank Ember has found that renewable energy produced almost half of EU power last year, despite a drop in hydro . Wind and solar have increased their combined share of power generation significantly over the past five years. Credit: Leonid Sorokin/Shutterstock. This includes utility-scale onshore and offshore wind and, when available, selected findings on technologies at a lower maturity level.

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Renewable electricity - Renewables 2025 - Analysis

In the European Union, in 2023, about one-quarter of the EU electricity supply was met by imported fossil fuels, and without wind, solar PV and bioenergy, this share would have reached nearly 50%.

Wind Energy in the European Union

The aim of this report is to provide an overview of the current status, value chains and market position of wind energy technology. This includes utility-scale onshore and offshore wind and,



Wind and solar overtook fossil fuels across Europe in 2025

Wind and solar generated more EU electricity than fossil fuels for the first time in 2025, driven by a massive surge in solar power.

[Wind and solar beat fossil fuels in EU power mix in 2025, energy think](#)

Wind and solar power for the first time generated more electricity in the European Union than fossil fuels in 2025, driven by a surge in solar output, data from energy think tank Ember



[Wind-solar technological, spatial and temporal complementarities in](#)



[EU sees shift as wind and solar outpace fossil fuels in power output](#)

Wind and solar became the leading sources of electricity in the EU in 2025, generating a greater share than fossil fuels for the first time, data from energy think tank Ember's European

Climate change and geopolitical risks call for the rapid transformation of electricity systems worldwide, with Europe at the forefront. Wind and solar are the lowest cost, lowest risk, and cleanest



European Electricity Review 2025

Wind power remained the EU's second largest power source, above gas and below nuclear. The significant progress has brought benefits beyond reducing emissions. Structural growth

[Solar and wind overtake fossil fuels in the EU for the first time. Can](#)

Wind and solar generated more EU electricity than fossil fuels for the first time in 2025, marking a "major milestone" in the transition to clean power.



EU Solar Market Outlook 2025-2030

EU Market Outlook for Solar Power 2025-2030 provides a comprehensive forecast and analysis of the solar power sector in the European Union from 2025 to 2030.

[Wind and solar overtook fossil fuels for](#)

[EU power generation in 2025](#)

Wind and solar overtook fossil fuels in the European Union's power generation last year, a report has found, in a "major tipping point" for clean energy.



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