

# Wind power generation in September



## Overview

In the last week of September, wind energy production increased in the main European markets and registered historical daily production records for September in several markets. This favored the decline in electricity market prices, even though gas and CO2 prices increased during. Europe now has 291 GW of wind power capacity, with 254 GW onshore and 37 GW offshore. Europe's electricity supply from wind fell by 6% in January to August from a year. Annual electricity generation from wind is measured in terawatt-hours (TWh) per year. This includes both onshore and offshore wind sources. Data source: Ember (2026); Energy Institute - Statistical Review of World Energy (2025) - Learn more about this data Measured in terawatt-hours. 4%) was produced from fossil fuels, 347. Historically, wind power was used by sails, windmills and windpumps, but today it is mostly used to generate electricity.



## Article Content

### Wind power

Wind power is the use of wind energy to generate useful work. Historically, wind power was used by sails, windmills and windpumps, but today it is mostly used

### European Electricity Review 2026

The EU's electricity transition reached a new milestone in 2025 with wind and solar generating more power than fossil fuels.

Europe: Solar and wind energy trends show mixed performance in late ...

Regarding wind energy, production increased in the Iberian Peninsula during the fourth week of September, ending the previous week's downward trend. Portugal saw a 52% increase in wind

Europe's wind output closely tracked as solar peak passes

The forecast for European wind power output, however, is positive, with LSEG models calling for a sharp rise in regional wind power output over the

### 2026 Renewable Energy Industry Outlook | Deloitte

Deloitte's 2026 Renewable Energy Industry Outlook indicates that amid policy changes, the industry is likely to focus on building resilience

### Renewable Power Generation Costs in 2024

Total installed costs for renewable power decreased by more than 10% for all technologies between 2023 and 2024, except for offshore wind, where they remained relatively stable, and bioenergy,

### Wind Turbine Operation and Maintenance Service | Siemens Gamesa

With more than 40 years of experience in the wind power business, when you choose Siemens Gamesa, you're choosing established technology for maximum profitability and proven reliability.

### Autumn Winds Crucial for European Clean Energy Targets

Europe is relying on increased autumn wind speeds to boost clean power generation after a slump in wind output and the passing of the annual solar peak, aiming to counteract a rise in...

Europe shifts focus to wind output after solar peak

The forecast for European wind power output, however, is positive, with London Stock Exchange (LSEG) models calling for a sharp rise in regional wind power output over the second half of September.

## UK Wind Energy Database (UKWED) | RenewableUK

Discover live statistics on onshore and offshore wind energy projects in the UK, powered by RenewableUK's EnergyPulse platform.

## Electricity Data Explorer | Ember

Ember's data explorer allows users to analyse and visualise Ember's best-in-class dataset on the global power sector. The data covers 215 countries, and contains the latest 2025

## Monthly Electricity Statistics – Data Tools

Inside Europe, the increase in wind generation was led by Germany (+5.3 TWh) followed by Spain and France, each with a 2.6 TWh increase

## China tests world's largest megawatt-level flying

China's S1500 airborne wind turbine completes maiden flight, becoming the world's largest floating wind-power generator.

## New Energy Outlook 2026

The New Energy Outlook is BNEF's annual report focused on long-term energy and climate scenarios for the energy transition.

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## European wind energy production reached records for September and ...

In the last week of September, wind energy production increased in the main European markets and registered historical daily production records for September in several markets. This

## Global Wind Day 2026: Six Reasons Wind Energy Continues to Power

Every year on the 15th June, the global renewable energy community comes together to celebrate Global Wind Day and recognise the contribution wind power makes to cleaner, more

## World Energy Outlook 2025 – Analysis

The IEA's flagship World Energy Outlook (WEO) is the most authoritative source of global energy analysis and projections. Updated annually to reflect the latest

## Latest wind energy data for Europe: Autumn 2025 –

This autumn update outlines the latest data for wind energy in Europe and our expectations for the rest of the decade. Europe now has 291 GW of wind

Nuclear Power in Canada: Status, Developments,

Nuclear power plays a significant role in Canada's energy portfolio, supplying a substantial portion of the nation's electricity while supporting

Wind power business, technology & policy | Windpower

Find news, insight & analysis on wind power companies, policy, technology, O& M & project development on Windpower Monthly

Wind Energy | Department of Energy

Wind power is the nation's largest source of renewable energy, with more than 150 gigawatts of wind energy installed across 42 U.S. States and

Wind power generation, 2025

Annual electricity generation from wind is measured in terawatt-hours (TWh) per year. This includes both onshore and offshore wind sources.

Global Energy Perspective 2025 | McKinsey

This year marks the tenth anniversary of McKinsey's Global Energy Perspective, offering a chance to reflect on the lessons learned over the past

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