

**Espay Solar Energy S.L.**

# **Global share of wind power and photovoltaic power generation**



## Overview

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Renewables collectively accounted for one-third of electricity generation, led by hydropower (14% of total electricity generation), wind (8%), solar PV (7%) and bioenergy and waste (3%). Global electricity demand increased by 4.3% in 2024, a step change from the 2.3% in 2023. Electrification picked up across sectors, raising. • Brazil becomes second largest market and joins top 5 wind power nations. The full report as of 23 April 2025 can be downloaded here as PDF file Bonn (WWEA) – In 2024, new wind turbine installations fell far short of expectations, reaching 121'305 Megawatt, slightly less than in 2023, when 121'465. In this interactive chart, we see the share of primary energy consumption that came from renewable technologies – the combination of hydropower, solar, wind, geothermal, wave, tidal, and modern biofuels. Traditional biomass – which can be an important energy source in lower-income settings is not. This publication presents renewable energy statistics for the last decade (2015-2024). Renewable installations were also. The World Bank has published the study Global Photovoltaic Power Potential by Country, which provides an aggregated and harmonized view on solar resource and the potential for development of utility-scale photovoltaic (PV) power plants from the perspective of countries and regions.

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### Global Market Outlook for Solar Power 2025-2029

Solar experienced the fastest growth among all power generation technologies in terms of electricity output, three times as much as wind power, which was ranked second.

### Renewable Energy

In this interactive chart, we see the share of primary energy consumption that came from renewable technologies - the combination of hydropower, solar, wind, geothermal, wave, tidal, and modern ...



### Renewable Energy

Renewable Energy Generation  
 Renewables in The Electricity mix  
 Hydropower  
 Wind Energy  
 Solar Energy  
 Biofuels  
 Geothermal

How much of our electricity comes from renewables? In the sections above we looked at the role of renewables in the total energymix. This includes not only electricity but also transport and heating. Electricity forms only one component of energy consumption. Since transport and

heating tend to be harder to decarbonize - they are more reliant on oil and gas - r...See more on ourworldindata IRENA - International Renewable Energy Agency

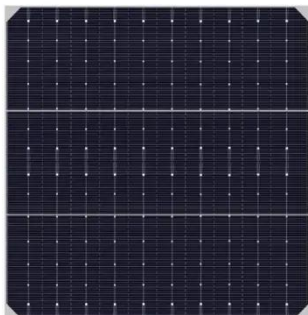
## Renewable energy statistics 2025 - irena

Renewable energy statistics 2025 provides datasets on power-generation capacity for 2015-2024, actual power generation for 2015-2023 and renewable energy ...

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### Renewable energy statistics 2025

Renewable energy statistics 2025 provides datasets on power-generation capacity for 2015-2024, actual power generation for 2015-2023 and renewable energy balances for over 150 countries and areas for ...



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### Wind And Solar Energy: Global Electricity Generation 2024 , Low ...

Wind And Solar generates 15.3% of global electricity worldwide. Compare Wind And Solar power generation by country with 2024 data and environmental impact.

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### Global Photovoltaic Power Potential by Country

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and the general ...



## Electricity - Global Energy Review 2025 - Analysis

For the first time ever, power generation from renewables and nuclear covered two-fifths of total global generation in 2024. Renewables collectively accounted for one-third of electricity generation, led by ...

## Global Statistics

These countries demonstrate that the world as a whole can achieve a 40-50% share of wind power in total electricity generation, as outlined by the WWEA in a long-term scenario.



## Wind & Solar Share in Electricity Production Data , Enerdata

Globally, the share of wind and solar in power generation rose by 1.5 pp in 2024 to 15% (nearly +13 pp since 2010). It

increased by 3 pp to 18% in China (+16 pp since 2010) and by 2 pp to 17% in the USA ...



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## Global Electricity Review 2025 , Ember

Generation from all low-carbon power sources - renewables plus nuclear - surpassed 40% of global electricity in 2024 for the first time since the 1940s. Renewable power sources added a ...



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## Share of electricity production from wind, 2025

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this ...

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