

Solar and wind power generation data



Overview

This publication presents renewable energy statistics for the last decade (2015-2024). Ember (2026); Energy Institute - Statistical Review of World Energy (2025) – with major processing by Our World in Data Measured in kilowatt-hours per person. Here, energy refers to primary energy using the substitution method. China accounted for over 60% of these renewable installations, with 278 GW of new solar capacity and 80 GW of new wind capacity. Wind power took first place as the strongest net electricity producer, followed by photovoltaics, which increased its production by 21 percent in 2025 and overtook. London, 21 May – Wind and solar generated more electricity than gas globally for the first month ever in April 2026, according to data analysed by global energy think tank Ember. The milestone. Renewables 2025 includes this dynamic data dashboard which enables users to explore historical data and forecasts for all sectors and technologies.



Article Content

Renewable Power Generation Costs in 2021

The lifetime cost per kWh of new solar and wind capacity added in Europe in 2021 will average at least four to six times less than the marginal generating costs of

New U.S. electric generating capacity expected to reach a record high ...

Includes hydropower, solar, wind, geothermal, biomass and ethanol. Uranium fuel, nuclear reactors, generation, spent fuel. Comprehensive data summaries, comparisons, analysis,

Lazard Releases 2025 Levelized Cost of Energy+ Report

Renewables Remain Competitive: Unsubsidized Wind & Solar Lowest Cost Generation Sources for Last 10 Years Despite facing macro

Global Electricity Mid-Year Insights 2025 | Ember

Solar and wind outpaced demand growth in the first half of 2025, as renewables overtook coal's share in the global electricity mix.

German Public Electricity Generation in 2025: Wind and

This analysis is based on the energy-charts data platform of the Fraunhofer Institute for Solar Energy Systems ISE, which provides interactive

A Decade of Growth for U.S. Solar and Wind | Climate

The U.S. produced record levels of solar and wind power in 2024 – part of a decade-long growth trend.

In a first, wind and solar generated more power than gas ...

Wind and solar generated more electricity than gas globally for the first time ever in April 2026, according to new Ember data.

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 and solar generated a record 17% of U.S. electricity in 2025

Combining utility-scale and small-scale solar generation in 2025 increases the share of wind and solar to 19% of total net generation. Wind and solar are considered intermittent electricity

Wind and Solar Capacity Data Explorer

The latest monthly data on wind and solar capacity, including total installed capacity, month-on-month and year-to-date additions across 25 countries and economies, covering around

China Energy Transition Review 2025

China's adoption of renewable energy continues to accelerate. In 2024, wind and solar electricity generation rose by 25% compared with the previous year. In the first half of 2025 it was

SMARD | SMARD

The electricity market in the fourth quarter of 2025 Records for solar and wind offshore The electricity market in 2025 Record high for solar generation in each

Wind & Solar Share in Electricity Production Data | Enerdata

Weight of solar and wind in electricity production data. Data for solar and wind renewable energies in electricity production available in a map and excel file by country level.

Renewable Energy Statistics 2026: Global Capacity, Generation

Global renewables hit 5,149 GW in 2025 and overtook coal for the first time. Primary-source data on solar, wind, storage, investment and employment — with the original Axis Intelligence

Renewable Energy Progress Tracker – Data Tools

The associated Renewables 2025 dataset gives full access to all of the data available in this dashboard for the Renewables 2025 forecast, plus additional premium data for all sectors and

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

Global Market Outlook for Solar Power 2025-2029

As a result, solar is increasingly outperforming other power generation technologies across the board. There is no doubt that solar power has become the driving force of the global

Global trends – Global Energy Review 2026 – Analysis

Wind power generation increased by around 8%, held back by poor wind conditions in some major markets. Overall, growth in renewables and nuclear exceeded the

Solar energy

Solar energy is used worldwide and is increasingly popular for generating electricity, and heating or desalinating water. Solar power is generated in two main ways: Solar photovoltaic (PV) uses

Solar power beats coal for electricity generation despite Trump ...

Even as President Donald Trump boosts coal over clean energy, solar power is hitting new milestones in the U.S. and remains the leading source of new power.

China | Energy Trends | Ember

The share of wind and solar combined reached 22%, above the global and Asia average of 17%. Solar recorded another year of exponential growth, with 336 TWh of power generation, a

For the first time, wind and solar generated more electricity than gas ...

London, 21 May – Wind and solar generated more electricity than gas globally for the first month ever in April 2026, according to data analysed by global energy think tank Ember. Together, wind and solar

Executive summary – Renewables 2025 – Analysis

Solar PV accounts for almost 80% of the global increase, followed by wind, hydropower, bioenergy and geothermal. In more than 80% of countries worldwide, renewable power capacity is set to grow faster

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