



Wind power installed capacity Power generation group



Overview

A report from a leading wind power trade association said a record 117 GW of new wind energy generation capacity was installed worldwide last year, a 50% increase from the prior year. • Total capacity exceeds 1'174 Gigawatt, • 121 Gigawatt added in 2024, slightly less than the last year • Dramatic 18% decline outside China • Annual growth rate falls from 13,0% to 11,5% • China installs 87 Gigawatt, 72% of new global capacity • Brazil becomes second largest market and joins top 5. Wind energy generation, measured in gigawatt-hours (GWh) versus cumulative installed wind energy capacity, measured in gigawatts (GW). Data includes energy from both onshore and offshore wind sources. Data source: Energy Institute - Statistical Review of World Energy (2025); IRENA (2025) – Learn. Electricity generation from renewables is expected to increase by 60% through 2030 – rising from 9 900 terawatt-hours (TWh) in 2024 to 16 200 TWh by the end of the decade. Wind accounts for almost a third of growth, second only to solar PV, which accounts for 60%. A wind project phase is generally defined as a group of one or more wind turbines that are installed under one. The International Renewable Energy Agency (IRENA) produces comprehensive, reliable datasets on renewable energy capacity and use worldwide. The “ Global Wind Report 2024,” published April 16 by the Global Wind Energy Council (GWEC), said “the world is.

Article Content

Facilities map and main operational data

The Iberdrola facility map is an interactive way of viewing the company's main global operating data: the installed capacity of each technology, net electricity ...

GLOBAL WIND ENERGY COUNCIL

for the global community. The journey of wind energy has been nothing short of remarkable, evolving from a niche technology to a mainstream source of power that is now integral to our stands ready to ...

Global cumulative installed capacity of wind power ...

China is by far the largest installer of wind power in the world, more than tripling the second-ranked United States. As of the end of 2024, China had ...

Wind energy generation vs. installed capacity, 2024

Wind energy generation, measured in gigawatt-hours (GWh) versus cumulative installed wind energy capacity, measured in gigawatts (GW). Data includes ...

Wind power by country

WindEurope (formerly known as The European Wind Energy Association) has estimated that 230 gigawatts of wind capacity will be installed in Europe by ...

Renewable energy statistics 2025

Data on renewable power capacity represents the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity. For most countries and ...

Global Wind Power Tracker

The Global Wind Power Tracker (GWPT) is a worldwide dataset of utility-scale, on and offshore wind facilities. It includes wind farm phases with capacities of 10 megawatts (MW) or more.

Group Says Record 117 GW of New Wind Power ...

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