

# Global wind and solar power installed capacity

How much wind power does the world have?

According to preliminary statistics published today by the World Wind Energy Association, global wind power capacity has now reached 1'173'581 Megawatt- well below the estimates published by WWEA in autumn 2024.

Which countries have increased wind energy capacity in 2023?

11.3 GW in 2023. However, 96.0% of the increase comes from China. Other countries where capacity increased by more than 0.5 GW were: Pakistan, Ethiopia, Viet Nam, Tanzania, Indonesia and Nepal. Wind energy: Wind energy saw a slight decline from the record numbers seen in 2023, with 113.2 GW added in 2024.

Does China have a role in global wind power development?

With this impressive new capacity, China accounts for 72% of the global market for new wind turbines - a steady increase from 65% in 2023 and 58% in 2022. Although also China also fell slightly short of the expected new capacity of nearly 100 GW, the record cements China's dominant role in global wind power development.

How much wind energy does China have in 2024?

As of the end of 2024, China had cumulatively installed over 561 gigawatts of wind energy, in comparison to 154 gigawatts of wind energy installed in the United States. Worldwide, the cumulative capacity of wind energy reached more than one terawatt in 2024. Electricity can be generated by harnessing the kinetic energy created by air in motion.

In 2023, an estimated 96% of newly installed, utility-scale solar PV and onshore wind capacity had lower generation costs than new coal and natural gas plants. In addition, three-quarters ...

Global prospective wind and solar reaches almost 5 TW, but the wealthiest nations account for one-tenth of the capacity Key points The global clean power pipeline surged in 2025. Announced and in ...

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

Cumulative installed wind energy capacity including both onshore and offshore wind sources, measured in gigawatts (GW).

Global renewable power capacities increased by 585 GW to reach 4,448 GW in 2024, according to the International Renewable Energy Agency (IRENA). Most of the expansion came from ...

Renewable power capacity growth (GW) Renewable power capacity increased by 585 GW (+15.1%) in 2024. Over three-quarters of the capacity expansion was due to solar energy which witnessed an ...

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The world's installed wind power capacity now meets well over 10% of global electricity demand - and much more than nuclear power. More than 30 countries now have a share of wind ...

Global renewable energy deployment continued its robust growth in 2024, with solar and wind capacity increasing by a near-record 23% to almost 3 TW. Solar and wind continue to ...

This dataset contains monthly capacity data for wind and solar, including both total installed capacity as well as month-on-month and year-to-date additions. It covers 25 countries ...

The average annual operating hours for photovoltaic power generation will be approximately 1,340, a slight increase from 2025. Taking into account the growth in installed ...

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