



Total wind power generation in 2022





Overview

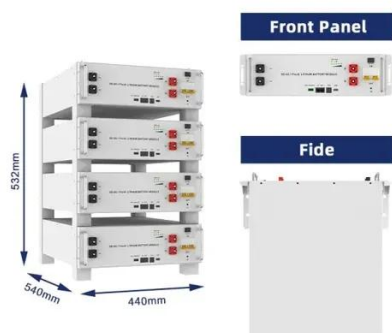
Global wind generation capacity grew 5-fold between 2010-2022 from 180 GW to about 910 GW. Capacity grew almost 80 GW in 2022, the lowest build over the past 3 years (112 GW in 2020 and 95 GW in 2021), although it still ranks as the 3rd highest year. London, 12 April – Wind and solar reached a record 12% of global electricity in 2022, up from 10% in 2021, according to a major report launched today by energy think tank Ember. The report forecasts that from 2023 wind and solar will push the world into a new era of falling fossil generation, and.

- 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.

Global wind generation capacity grew 5-fold between 2010-2022 from 180 GW to about 910 GW. Total onshore capacity grew from 175 GW to 850. Ember's fourth annual Global Electricity Review aims to provide the most transparent and up-to-date overview of changes in global electricity generation in 2022 and a realistic summary of how “on track” the electricity transition is for limiting global heating to 1. This weekly round-up brings you the latest developments in the global energy sector. In Europe the growth has been even more pronounced, propelled by financial and other incentives that have led to a large expansion of wind energy generation.



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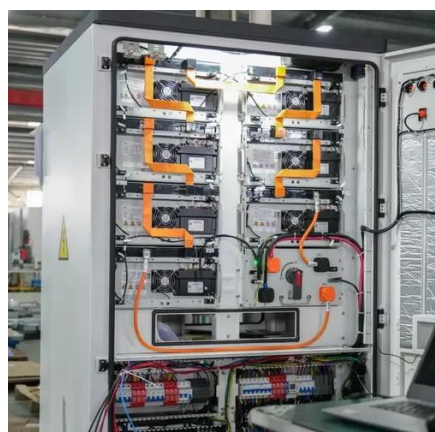


[Wind generation declined in 2023 for the first time since the 1990s](#)

Electricity generation from wind turbines also grew steadily, at a similar rate to capacity, until 2023. Last year, the average utilization rate, or capacity factor, of the wind turbine fleet fell to an ...

WeatherPower: 2022 in Review

Of the 2022 total, solar was 183,284 GWh (or 27%) and wind was 499,846 GWh (73%). The electricity generated from solar and wind in 2022 was enough to power the equivalent of 64 million



[Wind And Solar Hit 12% of Worldwide Power Generation In 2022](#)

The wind and solar sectors across the world reached a record 12% of global electricity in 2022, with US contributions hitting 15%, as per the report published by Ember, an energy think tank.

How the wind blows: Numbers and data on renewables

According to the report, wind electricity generation increased by a record 265 TWh (up 14%) in 2022, reaching more than 2 100 TWh - with China accounting for half of global wind power ...



[Wind electricity generation by country, around the world](#)

Wind electricity generation, billion kilowatthours, 2022: The average for 2022 based on 189 countries was 11.16 billion kilowatthours. The highest value was in China: 762.67 billion kilowatthours and the ...

[Wind and solar reach a record 12% of global electricity in 2022](#)

Wind and solar reached a record 12% of global electricity in 2022, up from 10% in 2021, according to a major report launched today by Ember.



Global Statistics

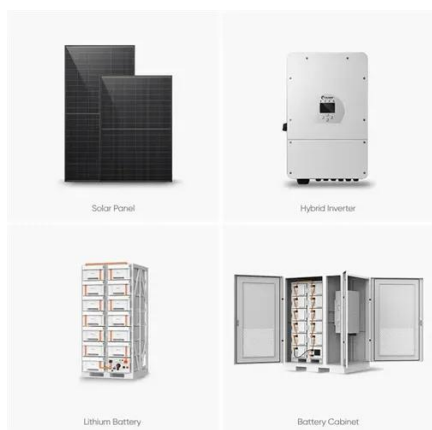
These countries demonstrate that the world as a whole can achieve a 40-50% share of wind power in total electricity generation, as outlined by the WWEA in a long-term scenario.

Wind Power Generation Capacity



2010-2022

Global wind generation capacity grew 5-fold between 2010-2022 from 180 GW to about 910 GW. Capacity grew almost 80 GW in 2022, the lowest build over the past 3 years (112 GW in ...



Wind and Solar Reached a Record 12% Of Global Electricity in 2022

Wind and solar reached a record 12% of global electricity generation, but they still weren't built fast enough to meet all of the world's increasing need for electricity.

Wind and solar hit record levels of power generation in 2022. What ...

Wind and solar energy represented a record 12% of global electricity generation last year, up from 10% in 2021. A report by the energy think tank Ember says 2022 could have marked peak ...





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