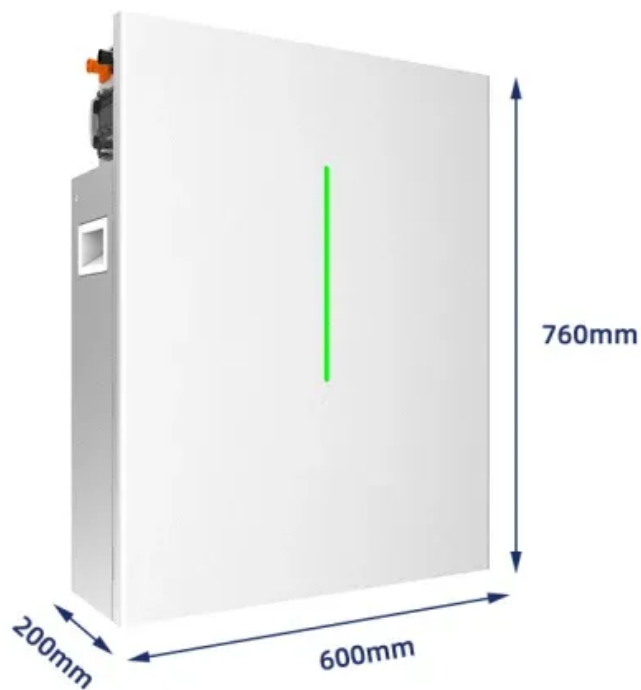


European Solar and Energy Storage Solutions

Installed wind power generation capacity



Overview

The world installed 117 gigawatts of new wind power capacity in 2023, a 50% increase from the year before, making it the best year for new wind projects on record, according to a new report by the .

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Globally, 77.6 GW of new wind power capacity was connected to power grids in 2022, bringing total installed wind capacity to 906 GW1, a growth of 9% compared with 2021. The world's top five markets for new installations in 2022 were: Altogether, they made up 71% of global installations last year, collectively 3.7% lower than 2021.

How much wind power does the world need?

The world's installed wind power capacity now meets around 10% of global electricity demand - another important milestone. More than ten countries now have a wind power share of more than 20%, led by Denmark, which generates an astonishing 56% of its electricity from wind.

How much wind power is there in 2023?

The cumulative capacity of installed wind power worldwide amounted to approximately 1,021 gigawatts in 2023. Onshore wind power accounted for the majority of total wind power capacity, at about 946 gigawatts that year. Which country has the largest wind market?

.

How much wind energy does China have in 2022?

As of 2022, China had cumulatively installed over 395 gigawatts of wind energy, in comparison to 122.2 gigawatts of wind energy installed in the United States. Worldwide, cumulative capacity of installed wind energy reached 906 gigawatts in 2022, a generous increase over the last decades.

What is renewable power generation capacity?

Renewable power generation capacity is measured as the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity. For most countries and technologies, the data reflects the capacity installed and connected at the end of the calendar year.

How much wind power does the United States have?

In another major milestone, the United States passed 150 Gigawatt of total wind capacity, but the market was much weaker than in the previous year, adding only 6,4 Gigawatt - much less than in 2022 and in 2021, when 13,7 GW were added, more than double the capacity of 2023.

Installed wind power generation capacity



Wind power in the United States

Texas, with 28,843 MW of capacity, about 16.8% of the state's electricity usage, had the most installed wind power capacity of any U.S. state at the end of 2019. [8] The graph at left shows the growth in installed wind generation capacity ...

WWEA Annual Report 2023: Record Year for ...

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Global Wind Report 2023

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Wind energy generation vs. installed capacity

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.



China continues to lead the world in wind and solar, with twice as ...

China added almost twice as much utility-scale solar and wind power capacity in 2023 than in any other year. China could easily reach 1,200 GW of installed wind and solar ...



Global Wind Report 2024

The global wind industry installed a record 117GW of new capacity in 2023, making it the best year ever for new wind energy, finds this year's Global Wind Report from the Global Wind Energy Council. The report finds the wind ...



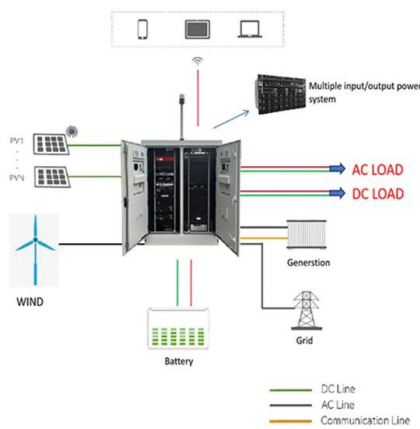
Wind power , Description, Renewable Energy, Uses, ...

4 ???· From 2007 to 2016, for example, total installed wind power capacity quintupled from 95 gigawatts to 487 gigawatts worldwide. Although wind generators have been blamed for ...



China's total installed capacity of wind, photovoltaic power generation

Specifically, the installed capacity of wind power generation reached 380 million kW, while that of photovoltaic power generation amounted to 440 million kW. China has ...



What is Generation Capacity?

Power plants have a capacity to produce a certain amount of power during a given time, but if they are taken offline (i.e. for maintenance or refueling) then they are not actually generating power. Nuclear power plants ...

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