

Solar Energy South Africa

Latest information on wind power generation



Overview

How did wind power grow in 2022?

In 2022 wind electricity generation increased by a record 265 TWh (up 14%), reaching more than 2 100 TWh. This was the second highest growth among all renewable power technologies, behind solar PV.

Should wind power grow to 320 gigawatts by 2030?

But the authors warned that the wind industry must increase its annual growth to at least 320 gigawatts by 2030 in order to meet the COP28 pledge to triple the world's installed renewable energy generation capacity by 2030, as well as to meet the Paris Agreement's ambition of capping global warming to 1.5 degrees Celsius (2.7 Fahrenheit).

Is the wind industry entering a new era of accelerated growth?

The report finds the wind industry is entering a new era of accelerated growth driven by increased political ambition, manifested in the historic COP28 adoption of a target to triple renewable energy by 2030. Looking forward, the report makes it clear that there is plenty to do to deliver on the increased ambition.

How much wind power does the UK generate?

National Grid Electricity System Operator on Wednesday said the country had generated record wind-powered electricity at one point on Tuesday, with provisional data showing a "max wind generation record" exceeding 21.6 gigawatts. UK demand on Wednesday lunchtime was about 35GW.

Which countries generate the most wind energy in 2022?

Wind remains the leading non-hydro renewable technology, generating over 2 100 TWh in 2022, more than all the others combined. China was responsible for almost 40% of wind generation growth in 2022, followed by the United States at 22%.

Where does wind power come from in the UK?

The London Array wind farm in the Thames estuary. Wind has consistently made up 46-59% of all UK electricity generation during the past week © Chris Ratcliffe/Bloomberg Simply sign up to the UK energy myFT Digest -- delivered directly to your inbox.

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[National Grid: Live](#)

At the same time, renewable power generation was steadily rising. Great Britain's exposed position in the north-east Atlantic makes it one of the best locations in the world for wind power, and the shallow waters of the North Sea host ...

[Next-Generation Wind Technology](#)

The Wind Energy Technologies Office (WETO) works with industry partners to increase the performance and reliability of next-generation wind technologies while lowering the cost of wind energy. The office's research efforts have ...



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