

## Solar Energy South Africa

# When will the wind power project generate electricity



## Overview

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The government says it wants to generate enough wind energy to be able to power every home in the UK by 2030. What does the energy strategy say about wind?

The government wants 50 gigawatts (GW) of the UK's electricity to be generated by offshore wind by the end of the decade - 5GW of which it's hoped will come from floating platforms in deeper seas off the UK coast.

How does a wind turbine produce electricity?

Electricity is generated when the wind turns the blades on a turbine. A generator inside the turbine converts this energy into mechanical power and electricity. The process produces hardly any greenhouse gas emissions (although some are produced when the turbines are constructed), which means it can play a major part in slowing climate change.

Are wind turbines generating more electricity than gas?

Wind turbines have generated more electricity than gas for the first time in the UK. In the first three months of this year a third of the country's electricity came from wind farms, research from Imperial College London has shown. National Grid has also confirmed that April saw a record period of solar energy generation.

Can wind power meet energy needs?

With wind power's potential to meet energy needs, this transition is even more promising. In the first quarter of 2023, wind power overtook natural gas as the UK's primary electricity source. Wind power generated 32.4% of the UK's electricity, exceeding the 31.7% produced by natural gas.

How does a wind generator work?

The energy in the wind turns the blades that are connected to the main shaft, which turns and spins a second shaft, which spins a generator to create

electricity. – A machine that is used to make electricity. When the generator head is turned, this energy is converted to electrical energy.

Will the UK get 50 gigawatts of electricity from offshore wind?

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### [Wind Power Facts and Statistics , ACP](#)

Wind energy (or wind power) refers to the process of creating electricity using the wind or air flows that occur naturally in the earth's atmosphere. called distribution lines, collect electricity generated at the wind project and transport ...

### **Analysis: Record-low price for UK offshore wind is nine ...**

A UK government auction has secured a record 11 gigawatts (GW) of new renewable energy capacity that will generate electricity nine times more cheaply than current gas prices. The projects are all due to start ...



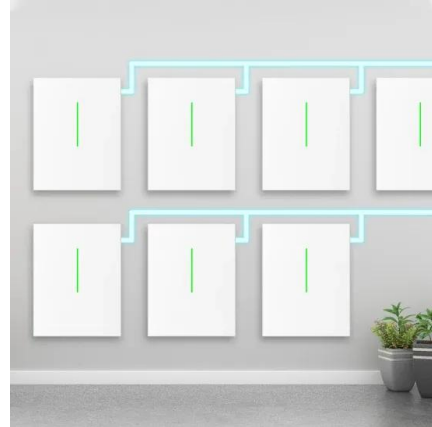
### **Wind power , Generating energy for the UK , EDF**

Making use of the wind's power is nothing new - windmills have been used to power machinery for hundreds of years, but how exactly do turbines turn wind energy into electricity? How does a wind turbine work?

### [How a Wind Turbine works](#)

Wind turbines work on a very simple principle: the wind turns the blades, which causes the axis to rotate, which is attached to a generator, which produces DC electricity, which is then converted

to AC via an inverter that can ...



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