

本集内容

UK wind turbines at sea 英国的海上风力发电机

学习要点

有关“energy（能源）”的词汇

边看边答

How many times do the blades have to turn to power a house for a day?

文字稿

That's where these latest huge **wind turbines** are being installed.

这些最新一批大型**风力发电机**就是在这里安装的。

Justin Rowlett, BBC correspondent

So to give you an idea of how big this thing is, I'm gonna [going to] walk it.

贾斯汀·罗拉特 BBC 通讯员

“为了让大家感受一下桨叶到底有多大，我来沿着它从头走到尾。”

Each of these blades is made by hand from balsa wood and fibreglass.

每片桨叶都是用轻木和玻璃纤维手工制成的。

So there we go, 81 metres.

“走完了，桨叶共 81 米长。”

You need a giant factory to make a giant wind turbine, which has created a new industry here in East Yorkshire (North of England).

你需要一个巨大的工厂来制造巨型风力发电机，这使得一个新产业在英格兰北部的东约克郡诞生了。

From the factory, the blades, towers and the **generator** are loaded onto a boat – yep, a really big one – and sailed out into the North Sea.

桨叶、塔架和**发电机**会被运出工厂，装上一艘船，没错，一艘很大的船，然后驶向北海。

This is where the vast new **wind farms** that increasingly **power** Britain are being built.

为英国**提供**越来越多**电力**的大型**新风力发电场**就建在这里。

Patrick Harnett, Programme Director, Orsted

There's our 1000th wind turbine in the UK for Orsted. About ten years ago we were 40% **reliant on coal**, we are now only 2%.

帕特里克·哈奈特 Orsted 公司项目总监

“这是 Orsted 在英国安装的第 1000 台风力发电机。大约十年前，英国**依赖**燃煤发电的比例是 40%，而现在只有 2%。”

The Danish company has installed about half this country's offshore wind capacity. And the plan is to keep on building.

英国大约一半的海上风力发电设备是由这家丹麦公司安装的。他们计划继续建设下去。

A huge crane lifts the 125-metre tower. Next, comes the generator. Then you need to attach those 81-metre turbine blades. Now, you can start generating electricity.

一台大型起重机把 125 米高的塔架吊起来。接下来是发电机。然后，需要安装这些 81 米长的涡轮桨叶。现在，就可以开始发电了。

Each turn of the blades is enough to power the average home for a day. And the offshore wind industry is on track to power every home in the UK by the end of this decade.

桨叶每转一圈，就足以为普通家庭提供一天的电力。而海上风力产业有望在 2029 年底为英国的每家每户供电。

词汇

wind turbines 风力发电机

generator 发电机

wind farms 风力发电场

power 提供电力

reliant on coal 依赖燃煤发电的

视频链接

<https://bbc.in/3ykCulY>

问题答案

Just one turn of the blades in a wind turbine can power a UK home for a day.