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Denmark's green hydrogen

丹麥的綠色氫氣



本集內容

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學習要點

有關“energy（能源）”的詞彙

邊看邊答

What is used to produce green hydrogen?

文字稿

These giants of **renewable** energy tower over the Danish countryside. Here in Brande, a pioneering project offers what might be a glimpse of the future.

這些用來製造**可再生**能源的龐然大物矗立在丹麥鄉村。在布蘭德，一個創新項目讓我們瞥見了未來的一種希望。

Adrienne Murray, BBC correspondent

This enormous turbine is harnessing energy from the wind – and that power is being used to produce another type of **clean fuel** – hydrogen gas.

艾德麗安·穆雷 BBC 通訊員

“這個巨大的渦輪機用風作動力，而風能被用來生產另一種**清潔燃料**——氫氣。”

The pilot **plant** isn't connected to the **grid**. And the green hydrogen made here supplies local taxis.

這個試點**工廠**沒有連接**輸電網**。這裡生產的綠色氫氣為當地的計程車提供動力。

Poul Skjaerbaek, Chief Innovation Officer, Siemens Gamesa

We can produce a maximum, like, eight kilos per hour with the equipment you see behind me here. So, it's, of course, extremely small. Nevertheless, eight kilos is actually what a car could drive, like, eight hundred kilometres on.

保羅·斯基爾別克 西門子歌美颯 (Gamesa) 首席創新官

“利用我身後的設備，我們每小時最多可生產約八公斤的氫氣。雖然量極少，但八公斤其實可驅動一輛汽車行駛約 800 公里。”

The need to slash our carbon emissions has brought hydrogen increasingly into focus.

削減碳排放的需求使氫氣成為人們日益關注的焦點。

Poul Skjaerbaek, Chief Innovation Officer, Siemens Gamesa

The good thing with hydrogen, when you burn it, you actually do not get the CO₂ emissions, so what comes out of the exhaust is water, instead of all the nasty stuff we see today.

保羅·斯基爾別克 西門子歌美颯 (Gamesa) 首席創新官

“氫氣的好處是，它燃燒時其實不會排放二氧化碳，它排出來的是水，而不是我們現在常看到的髒東西。”

Today, most hydrogen, about 95%, is made using **fossil fuels**. Green hydrogen, however, is produced from water and renewable electricity. This facility in Kolding makes electrolyzers – the technology needed to produce it.

如今，大部分氫氣（約 95%）是用**化石燃料**製造的。而綠色氫氣是用水和可再生電力製造的。位於科靈的這家工廠生產電解裝置，這是生產氫氣所需的技術。

Hydrogen has been touted as a climate solution before – but it hasn't really taken off. Proponents say it's a different picture today.

氫氣一直被宣傳為一種氣候解決方案，但還沒有得到真正的普及。支持者認為，如今情況不一樣了。

Sebastian Koks Andreassen, CEO, Green Hydrogen Systems

The difference is climate – the need to react rapidly on the climate change. Renewable electricity sources, they have become available in a much different volume than before and in the past – and they have also become much cheaper.

塞巴斯蒂安·科克斯·安德里森 綠色氫系統首席執行官

“不同之處在於氣候，我們需要迅速對氣候變化作出反應。可再生電力能源的供應量與以往大不相同，也變得更便宜了。”

Dozens of new green hydrogen plants are now on the horizon. But much needs to be done if the hopes for this new clean fuel can live up to the hype.

幾十個新的綠色氫氣工廠指日可待。但要想讓這種新型清潔燃料取得如宣傳的那種成效，還有很多工作要做。

詞彙

renewable 可再生的

clean fuel 清潔燃料

plant 工廠

grid 電網

fossil fuels 化石燃料

視頻連結

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問題答案

Green hydrogen is produced from water and renewable electricity.