Carbon Removals

drax

Capture the **opportunity**

Gianni Spinelli Head of Carbon Removals Origination



Enabling a zero carbon, lower cost energy future

We have a history of putting sustainability first, and our strategy ties commercial success to delivering three outcomes: climate positive, nature positive & people positive



Transforming Western Europe's largest coal-fired generator into its largest decarbonisation project



99% reduction in Scope 1 & 2 CO₂ intensity since 2012



Carbon

Removals

drax

On track to be a carbon negative company by 2030



Drax: A global leader in carbon removals

Tackling climate change while advancing sustainability is at the heart of our purpose.

Using bioenergy with carbon capture and storage – BECCS - we're creating opportunities for businesses to advance their environmental goals while delivering positive global change.



of experience in power generation, bioenergy pioneering and decarbonisation partnerships

14Mt

of CO₂ removed every year by 2030 with our international BECCS plants

12TWh

of power generated by our BECCS plants in the US and the UK by 2030



Our ambition is 14Mt+ of carbon removals per year



UK

- 8Mt per year of carbon removals at Drax Power Station by 2030
- Testing a number of carbon capture technologies since our first trial in 2018

North America

- Two Bioenergy Carbon Capture and Storage (BECCS) plants selected in US South, targeting Financial Investment Decision in 2026 and operational by 2030
- Will deliver 6Mt of Carbon Dioxide Removals (CDRs) in total every year by 2030
- An additional nine sites under evaluation
- Each site requires significant investment and creates 5,000+ permanent jobs



How BECCS removes carbon from the atmosphere





Storing CO₂ permanently and safely in geological formations





Trapping mechanisms



Structural/Stratigraphic



Residual



Solubility



Mineral

Zhao et al., 2014



STAYING BELOW 1.5 DEGREES OF GLOBAL WARMING



It's critical that we all:

CHANGE LAB

- A Reduce emissions as quickly as possible
- B Invest now in carbon removal projects.

Source: WRI.

S

BECCS is a permanent carbon removal technology. It stores carbon securely underground in naturally occurring geological formations for 1,000+ years.



BECCS is a hybrid climate solution





BECCS begins with photosynthesis, using well-managed working forests that capture carbon dioxide as they grow.

We source sustainable biomass from forests that are well regulated to ensure positive people, nature and climate outcomes.



Healthy managed forests deliver sustained ecological, economic and social outcomes.

Thank you

Gianni Spinelli Head of Carbon Removals Origination



gianni.spinelli@drax.com

