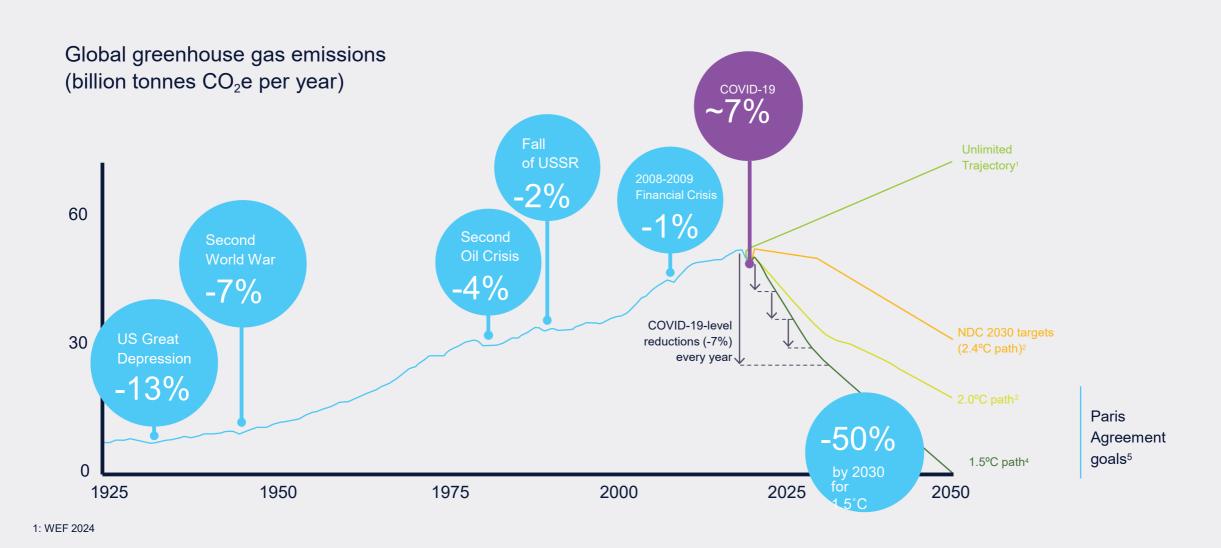






What is the Context?

Progress?¹ Since 1990, humanity has emitted more CO₂ than in all history to that date!

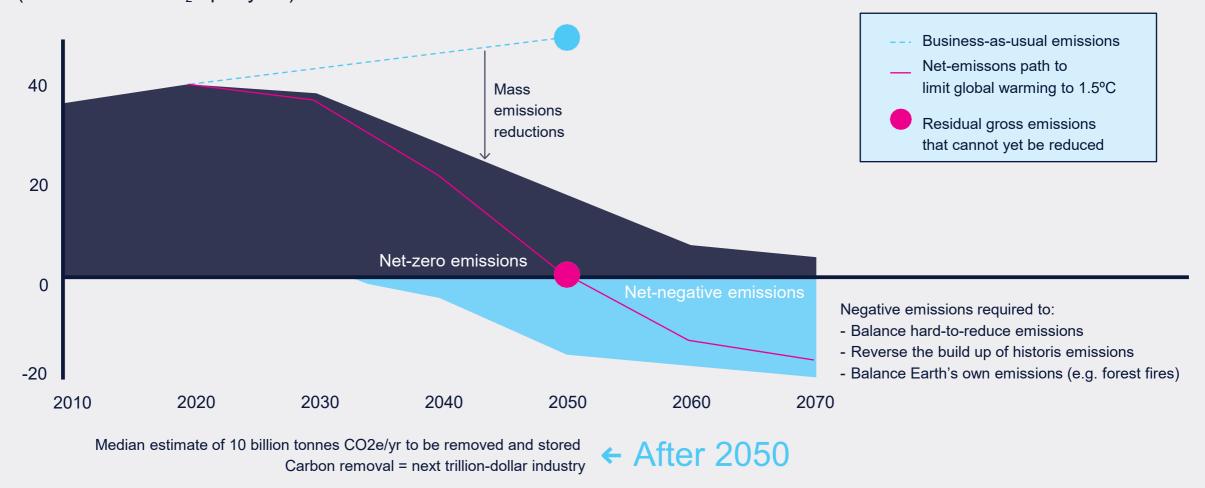






What's the Big Picture

Global greenhouse gas emissions (billion tonnes CO₂e per year)







Problem

We cannot get to Net Zero without a \$1TN CDR industry

References

1.World Economic Forum (2024) – median annual removal requirements are 10BN tCO e from 2050

2. Lappeenranta-Lahti University of Technology (2023) – 5BN tCO e pa required by 2050 for Net Zero





Solution

Proprietary, low-cost Carbon Dioxide Removal and Point Source Capture technology





The Problem with DAC

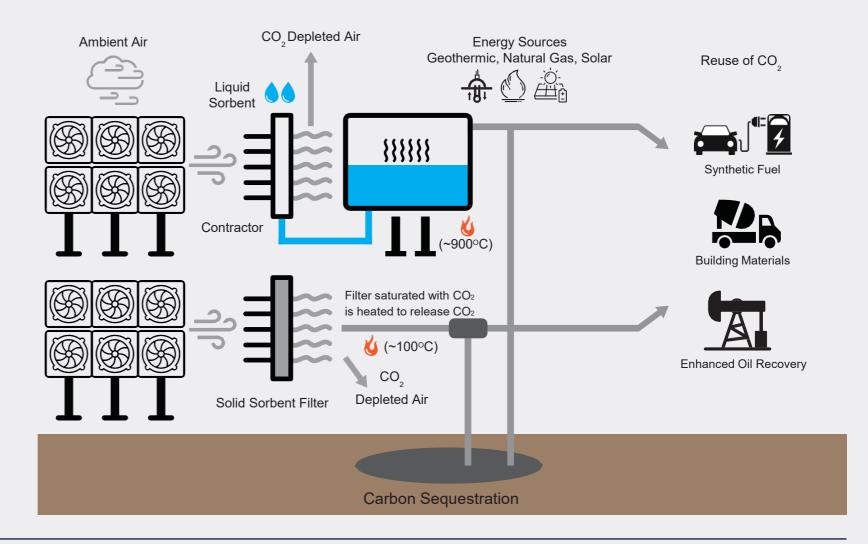
Energy consumption and Degradation are the leading issues facing DAC



Traditional DAC methods are effective in CO₂ capture but require large amounts of thermal energy



Existing sorbents have high degradation and are inefficient.







The Value Proposition

CT's DAC/CC Technology





Highly selective process for CO₂ capture and a "modular" reactor design for scalability



Proprietary process aiming for lowest cost (\$100/tCO₂)

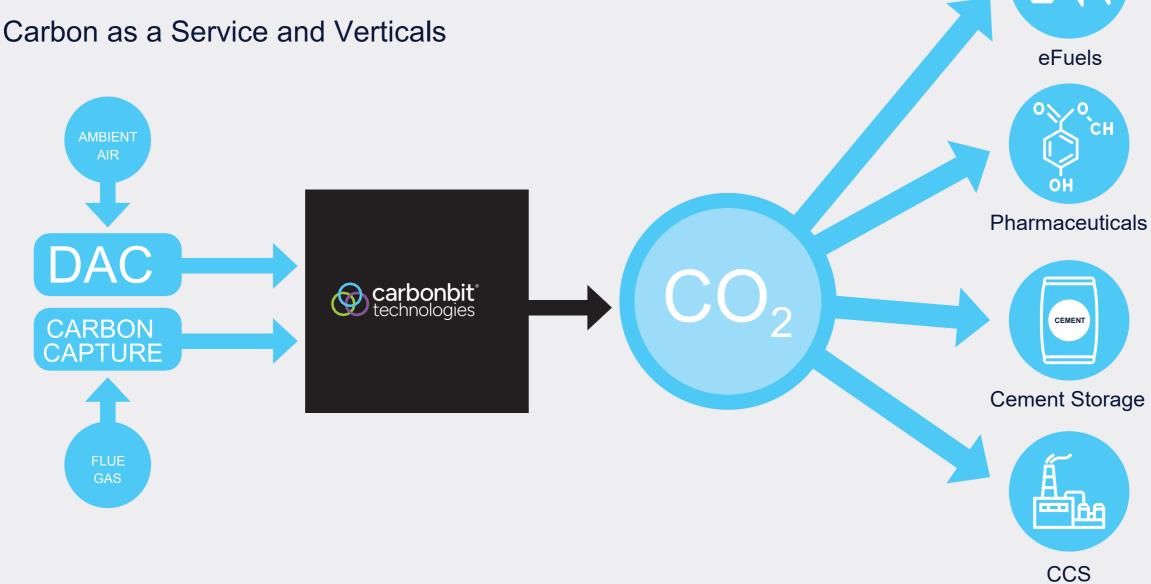


A strategic technology to target the removal of 40 MtCO₂/pa by 2045 and beyond





Carbon as a Service and Verticals







Traction - Financial Support to date













£50k

£190k

£20k

£25k

£15k

Won
"Transformational
Technologies" Grant
Competition in 2023

Won "Industry
Impact Fund"
support from STFC
and IIM from 24/25

Main Supporter in the Build Phase of the Prototype in 2024 Design Support in 2024 for Industrial Growth phase Forging commercial pathway into India market

Other investment to date of £132k

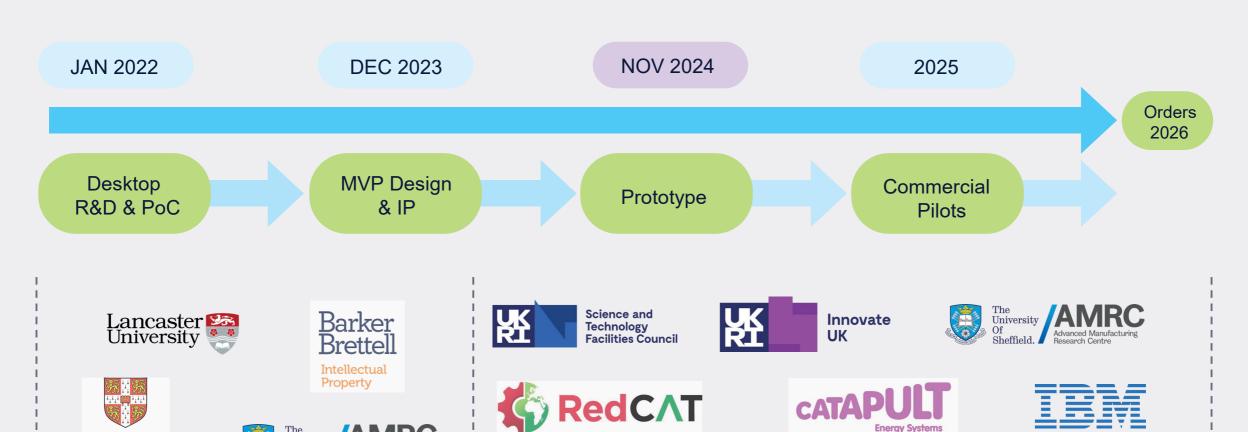




Traction - Technical Journey

Leading Partners

UNIVERSITY OF CAMBRIDGE



SMART

INNOVATION

DATA HUB

MANUFACTURING





Partner for Prototype Build



www.amrc.co.uk/pages/amrc-north-west







World Leading Advisors

Dr Ya-Wen H Computational Chemistry

 Computational Chemistry Scientist with 25 years in protein structural determination, macromolecule interactions, and scripting scientific analysis skills.

Dr Ubaid Q Computational Fluid Dynamics

 CFD Scientist CFD methods in multiphase flow and heat transfer to microflows, environmental flows and fluid-structure interactions.

Martyn G Design Engineering

 40 years' experience in developing and implementing multi-disciplinary engineering solutions through focus on data management and M&V.

Dr Karl G Consultant Engineer

 50 years' experience in O&G and new technology assessments – with broad background in CO2 Capture & Geologic Storage "Colored" Hydrogen, and e-Fuels.

Ged. H OBE Engineering

 Blue Chip M&E and process engineering specialist with agile development experience and knowledge of start-up process.





Leadership Team



Philip Hargreaves
Chief Executive Officer

- +20 years in sustainability management
 & +15 years of C-Suite experience
- Sustainability and engineering consultants
- Recent successful innovation spin off to Series A (Thallo.io – Carbon as a Service)



Dr Dylan Jordan
Chief Innovation Officer

- +5 years of experience in engineering development projects
- +3 years of technical research experience in process design and management
- BSc, MSc. Chemical Engineering PhD, Nuclear Engineering





Impact

Carbonbit Technology's patent pending CDR / CC technology is

Low Cost

Modular

Scalable

Less Downtime

Less Waste

A vision to capture ≈40 MtCO₂ /pa by 2045 for utilisation and storage





Join us in our exciting journey

We are looking for partners to help us in our:

- Process / M&E Design Engineering for scale
- IOT / Sensors for measuring carbon captured
- Modular Build capability
- Circularity in build and operation

Also, Collaboration through the Verticals

- 1. eFuels (Maritime, Aviation SAF)
- 2. Storage (Cement / Underground)



Low-cost, modular Carbon as a Service





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