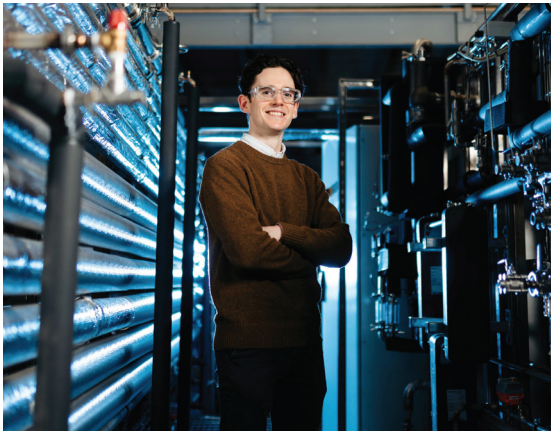
C-Capture

NEXT GENERATION CARBON CAPTURE TECHNOLOGY



C-CAPTURE'S NEXT GENERATION CLEAN TECH CAPTURES CARBON DIOXIDE (CO_2) FROM INDUSTRIAL EMISSIONS AND COMBATS CLIMATE CHANGE.

Our proprietary non-amine solvent-based technology is a true innovation in carbon capture and a potential gamechanger for industries looking to decarbonise their processes. Based on fundamentally different chemistry to current commercially available solutions, our approach is lower-cost, environmentally benign, and extremely robust. So robust in fact, that it's suitable for use even within challenging, hard-to-abate industries.

OUR PROPRIETARY TECHNOLOGY

The advantages of C-Capture's patented technology mean it has the potential to break through the barriers that are currently preventing the widespread adoption of carbon capture technology and make a globally significant contribution to mitigate the impact of climate change.

Here's why:

- Uses less energy than current commercially available technologies
- Lower cost
- Extremely robust, suitable for use even within challenging, difficult -to-decarbonise industries
- Well suited to the large-scale capture of CO_2
- Environmentally benign, based on fundamentally different chemistry that is amine free

"There has never been a more critical time to take action against climate change than right now.

"The amount of CO_2 being generated and released into the atmosphere is currently on such a scale that it is hard to imagine. A complex problem created by over a century of unsustainable practices, we need a raft of measures to limit and reverse the impacts of climate change.

"The deployment of carbon capture technology is one of the essential – and urgent – measures needed to achieve net zero by 2050. Carbon capture plays a critical role in a decarbonised future as both a transitional and long-term technology.

"This is the decisive decade for decarbonisation. And our technology has the potential to help solve the climate emergency."

Tom White, CEO, C-Capture

WHO WE ARE

Our mission is to produce a world-leading technology, to help solve one of the biggest problems of the 21st century.

An innovative UK cleantech company, we've been at the forefront of developing carbon capture technology for over a decade.

Our foundations are rooted in innovation, bright ideas, ingenuity, and dedicated people.

We were founded in 2009 as a spin-out company from the University of Leeds. Based in the University's School of Chemistry, our Founder, Professor Chris Rayner, and his research team had been working with CO_2 to find new solutions to the carbon capture problem, building upon his 20 years' experience in the field. Their work attracted investment and C-Capture was born.

We've expanded rapidly as we demonstrate and deploy our technology internationally and across a broad range of industrial sectors.

Our team of talented, driven people make valuable contributions across our engineering, scientific, administration and business operations – enabling C-Capture to develop its technology to its maximum potential and play a critical role in building a more sustainable future.

Helping to solve the most challenging, complex and urgent problem facing us all today – the climate crisis – is at the very heart of everything we do.

"I decided to work in this industry because I wanted my work to be meaningful and have a positive impact on the world.

"As a chemist, I can use my knowledge to solve real-life science problems and develop C-Capture's innovative solvent-based technology."

Rose McCarthy,
Senior Chemist, C-Capture

"I studied Chemical Engineering and halfway through my degree, I realised I wanted to devote my career to something meaningful. To try to leave the world in a better state than how I found it. Carbon Capture and Storage (CCS) really appealed to me as a crucial technology in the fight against climate change.

"Our work at C-Capture is particularly exciting because our innovative process is addressing the limitations of existing technologies – to drive down the cost of capture and accelerate the deployment of CCS. This has the potential to make a meaningful difference globally."

George Wright,
Proposal Engineer, C-Capture

"Doing something that you care about and are proud of is a huge part of achieving the right career for you.

"I'm passionate about cleantech and proud to work in this sector."

Anush Mataghchyan,
Process Engineer, C-Capture

INTERNATIONAL AWARD WINNER

C-Capture's next generation carbon capture technology scooped the trophy in the 'Energy' category of the 2022 IChemE Global Awards.

The international honours are widely considered as the world's most prestigious chemical engineering awards.

The Energy award recognises excellence in efficient energy use or the development of energy production methods that reduce energy intensity as part of the global awards celebration of chemical engineering excellence.

The technology was also a finalist in another category – 'Sustainability' – which recognises excellence in sourcing and consuming materials, reducing waste, and/or optimising the product life cycles.

"Being shortlisted was honour enough, but to win the global energy award is fantastic recognition for the C-Capture team and our next generation carbon capture technology. The IChemE Global Awards represent the pinnacle of excellence in chemical process engineering, this achievement is testament to our exceptional team and their commitment to accelerating the global adoption of carbon capture and storage to achieve net zero, by preventing greenhouse gases from entering the atmosphere."

Tom White, CEO, C-Capture

C-CAPTURE, OUR HISTORY

2009 C-Capture founded by Professor Chris Rayner as a spin out company from the University of Leeds to commercialise work from his research group.

2013 Discovery of C-Capture's unique carbon capture chemistry.

2016 National winners of Shell Springboard competition for innovation in low-carbon technologies.

2018 £3.5M equity investment round by Drax, BP Ventures, and IP Group.

2019 World's first BECCS pilot plant commissioned and operational at Drax.

2020 C-Capture represents UK cleantech startups at Prime Minister's industry round table ahead of the launch of the Government's 10-point plan for a Green Industrial Revolution.

2021 Partner with pioneering project InBECCS –which aims to be the first negative emissions project of its kind.

2022 C-Capture's £2.7m project XLR8 CCS launched to accelerate the adoption of C-Capture's technology in the hard-to-abate industrial sectors of cement, glass and waste to energy.

2022 C-Capture wins an IChemE Global Award in the Energy category.

C-Capture
Unit 14, Evans Business Centre,
Albion Way, Leeds
LS12 2EP
+ 44 113 245 0418

@C-Capture Ltd., Leeds
@C_CaptureCO2
c-capture.co.uk