

One of the largest biomethane producers in the UK





Green Gas

489

GWh/per year capacity



Clean Electricity

73 GWh/per year capacit



Working with over

400

farmers



The Future Of Biogas

Ofuturebiogas

New Opportunity

to combine anaerobic digestion & carbon sequestration

Green Gas

Decarbonise gas networks

- IEA forecasts 30x increase to 2050
- Produced without subsidy

Carbon Sequestration

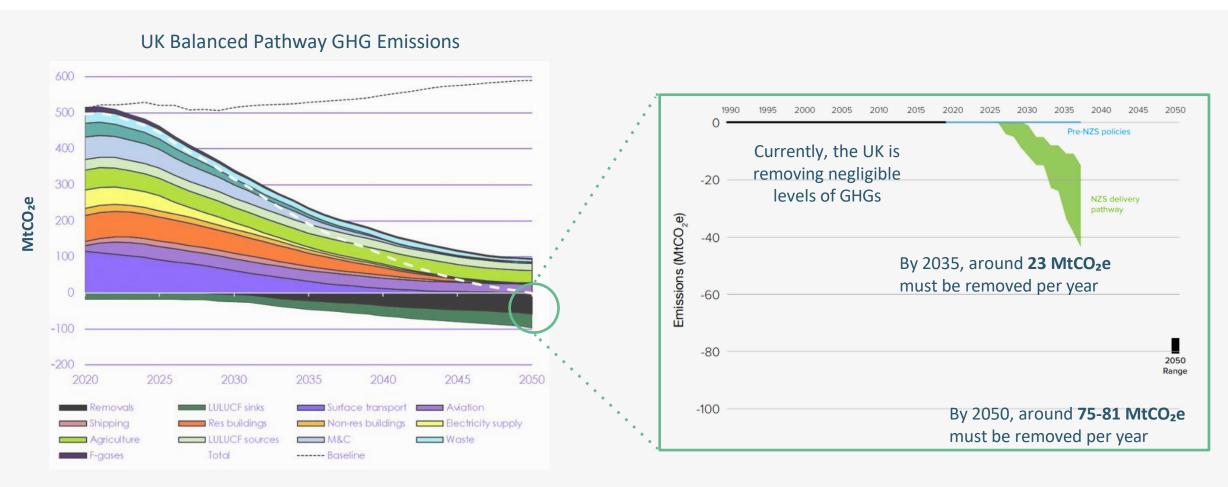
Deliver high value offsets

- Voluntary carbon growing 100% yoy
- \$50bn market by 2030

Green Gas has moved to the forefront of the energy transition



GHG removal and Net Zero

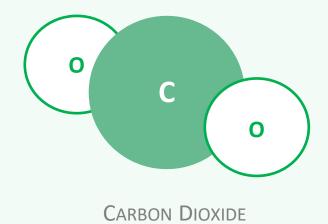


Source: CCC's Sixth Carbon Budget

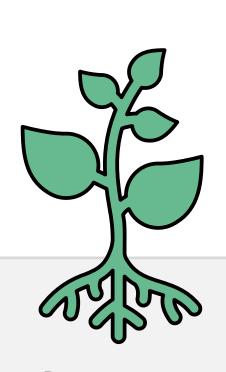
Source: Net Zero Strategy: Build Back Greener (2021)



Follow the **CARBON**...

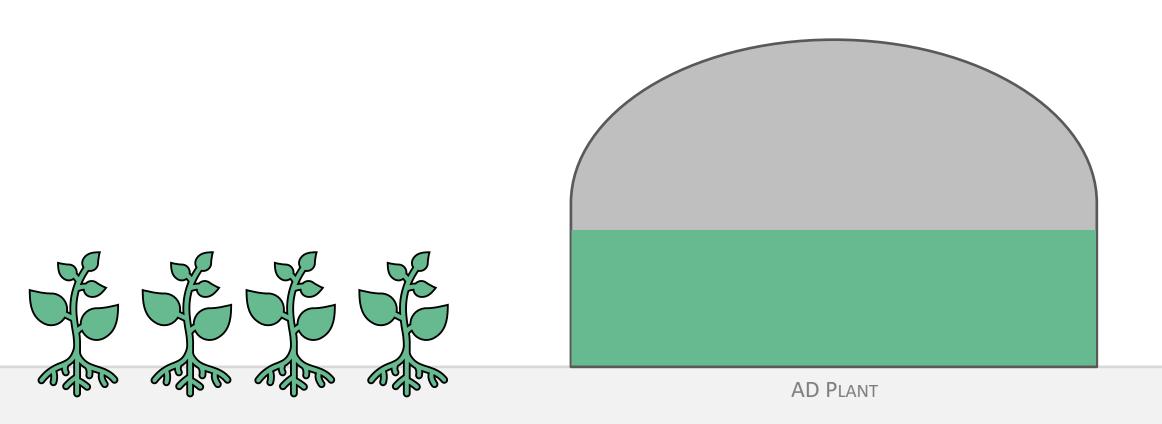






BIOENERGY CROP



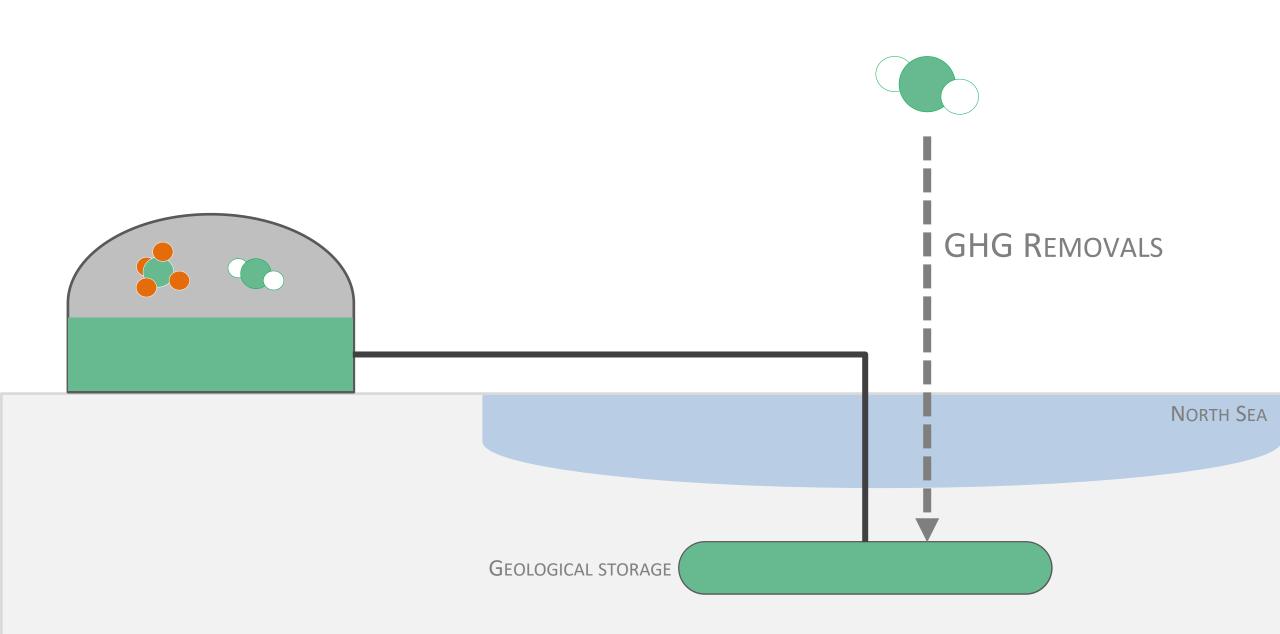


BIOENERGY CROP



55% 45% CARBON DIOXIDE **BIOMETHANE** CH₄

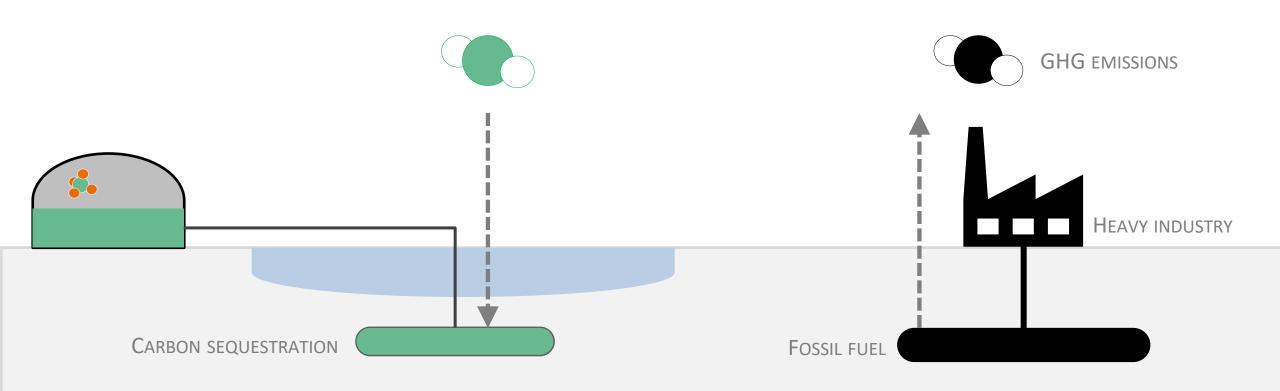






FROM ATMOSPHERE TO GEOLOGICAL STORAGE

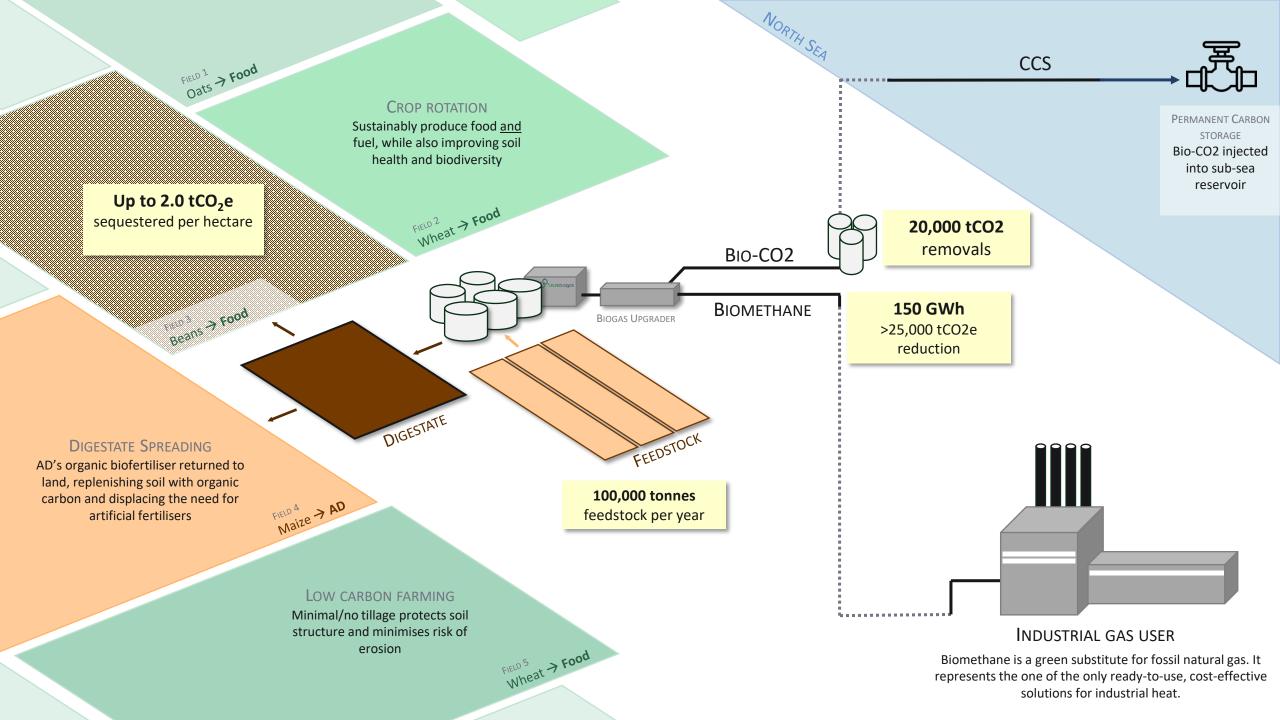
FROM GEOLOGICAL STORAGE TO ATMOSPHERE



Carbon-focused Approach







Accreditation



1

NATURE-BASED **C**ARBON REMOVALS

Up to 2.0 tonnes CO₂ sequestered per hectare

2

GEOLOGICAL CARBON REMOVALS

20,000 tCO2 pa

3

GREEN GAS UTILISATION

150 GWh pa

Potential scheme

TBC





Potential value

£1 - £15 per tCO₂

£350 - £900 per tCO_2

£20 - £30 per MWh

+ wholesale gas price

Potential customers*

Multiple buyers both corporate and consumer







AIRBUS

AstraZeneca

Industrial gas users, including AstraZeneca





Conventional AD income revenue streams

Biomethane certs

RHI / GGSS

Dependent on government support
Customers not adequately funding biomethane generation

Wholesale

Biofertiliser Bio-CO2

Decarbonisation subsidized by tax-payer

Project Carbon Harvest

GGR - CO2

GGR from bio-CO2
High-integrity, permanent carbon removals

Unsubsidised Green Gas

Unsubsidised
biomethane Customers
recognize value of
additionality and
market stability

GGR - digestate

- Subsidy free
- 100% additional green gas
- Nascent market for removals

Removal markets



Voluntary carbon market

- Currently leading the development of standards and methodologies
- Growing interest from corporates as they recognise need for removals
- 82% of FTSE 100 companies now aim for 'Net Zero' emissions by 2050
- Lacks government-backed standards and oversight
- Market uncertainty derived from different approaches to carbon accounting



Compliance carbon market

- UK and EU ETS expressed desire to incorporate removals into Scheme rules
- Potential to strength market for removals
- Will provide much-needed clarity on the quality and standards of removals

EC has began developing its Carbon Removals Certification Framework (CRCF) – bridging the gap between markets.





CO₂: Removals vs Utilisation

REMOVALS

Short ter	m
(0-3 year	s)

FOSSIL Cannot deliver GHG removals

BIOGENIC

Lack of infrastructure

UTILISATION

Short term
(0-3 years)
Shørt-evcle

BIOGENIC

FOSSIL



Thank you







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