

# BioCO<sub>2</sub> access to HyNet and CCS clusters

Project Development Opportunities

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# Agenda

- Progressive Energy
- CO<sub>2</sub> Storage Industry
- Competing Sources of Low Carbon CO<sub>2</sub>
- Selling the Credits
- GGR business model
- Non-pipeline transport
- Progressive Expertise



# Progressive Energy

- A low carbon energy project development and consultancy company formed in 1998
- Originator and lead developer of multiple large decarbonisation projects, including HyNet
- Developing several projects in the carbon dioxide removal market



**HyNet**



**HyNet IFS**  
**Industrial Fuel Switching**

# CO<sub>2</sub> Storage Industry



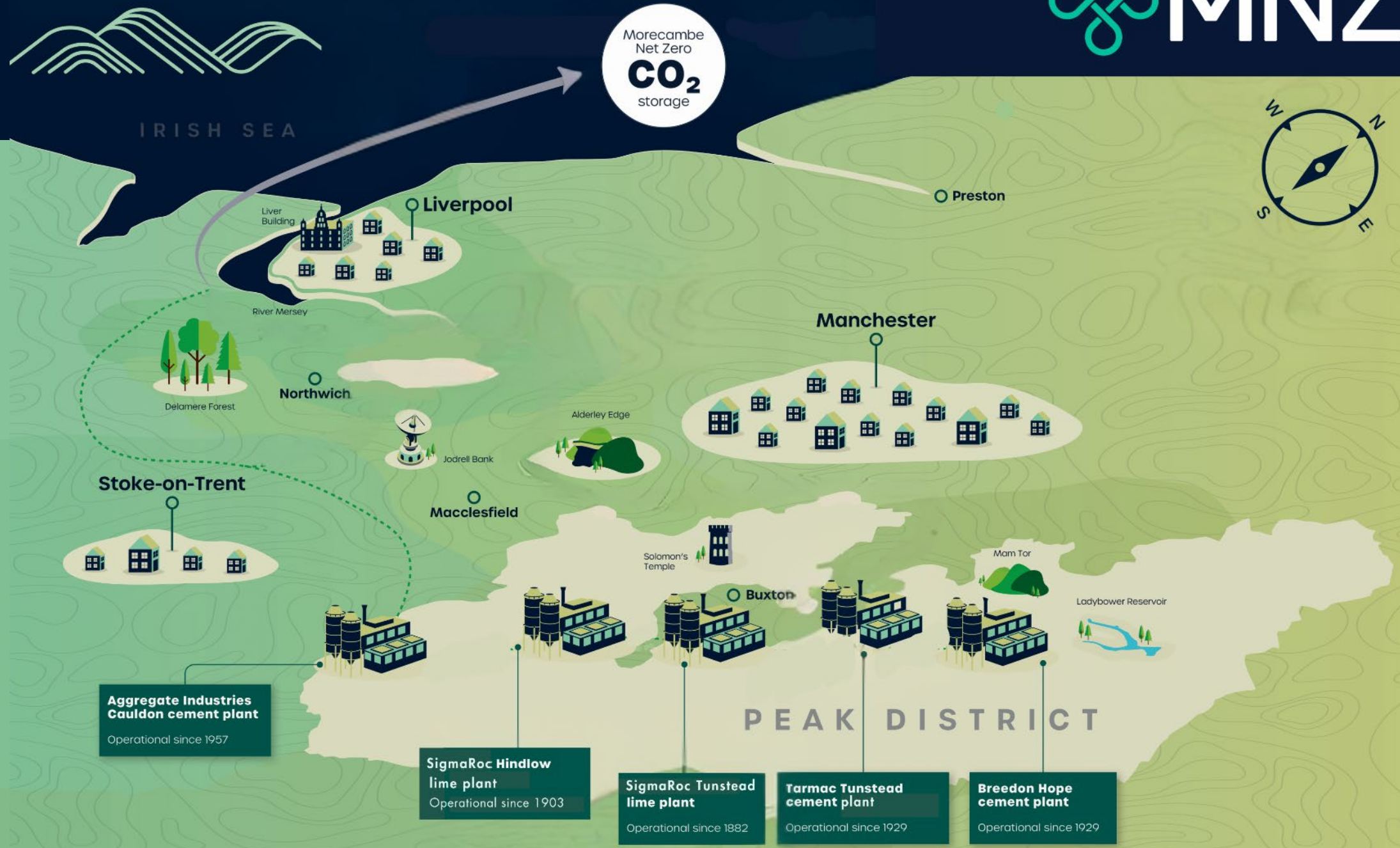
- Well regulated and organised
- RAV model for transport and sequestration networks
- Hynet and East Coast Cluster under construction
- Timelines for other clusters unclear
- Capacity can only be allocated by Government



# PEAK CLUSTER



Morecambe  
Net Zero  
**CO<sub>2</sub>**  
storage



**Aggregate Industries  
Cauldon cement plant**  
Operational since 1957

**SigmaRoc Hindlow  
lime plant**  
Operational since 1903

**SigmaRoc Tunstead  
lime plant**  
Operational since 1882

**Tarmac Tunstead  
cement plant**  
Operational since 1929

**Breedon Hope  
cement plant**  
Operational since 1929

# Competing Source of Low Carbon CO<sub>2</sub>



- AD has low cost of capture but highly distributed
- Biomass power plants have higher cost of capture but are more concentrated
- DAC is expensive but highly scalable
- Net removal, sustainability and counterparty risk are all important



# Selling the Credits



- Fairly active voluntary markets for negative emissions
- Long term fixed price off-take agreements
- GGR business model will give revenue certainty and possibly grant funding
- Allocation process is unclear
- ETS to be expanded to include credits
- 2030 ETS forecasts are £80-£200/tonne. Very sensitive to policy.
- Voluntary market feedback is \$200-\$250/tonne

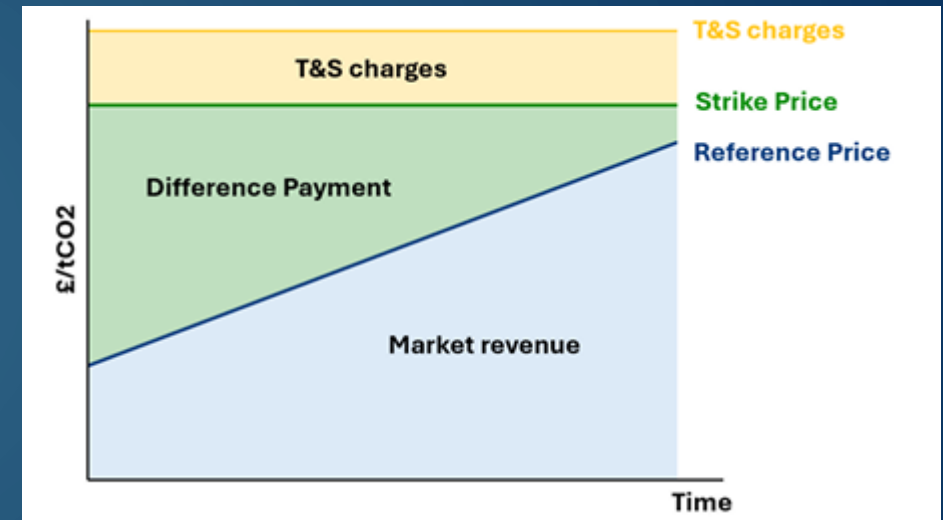




# GGR Business Model



- 15-year contract for difference (CfD) with strike price set through bilateral agreement.
- Reference price set by achieved market price with 5% incentive for emitter.
- T&S charges passed through contract and guarantees provided on T&S network availability.
- GGR must meet UK government standards and feedstocks must meet sustainability standards – both under development.
- Evero and Climeworks awarded initial contracts and offered 50% grant on costs.
- No detail on further allocations yet.





# Non-Pipeline Transport



- AD will require transport of liquefied CO2 from the AD plant to a regasification facility before injection into the transport and sequestration plant
- Government has refused to allocation T&S network capacity to pipeline projects in the past
- Consulting in November on how non-pipeline transport will be dealt with

# Progressive Expertise



- Progressive have been very successful in developing fossil fuel carbon capture
- We have a good understanding of:
  - Transport and sequestration networks
  - CO<sub>2</sub> standards
  - Carbon credit markets
  - T&S allocation
  - Sustainability and LCA
  - Monitoring, verification and reporting
  - Capture, liquefaction, transport and regasification
- We are seeking companies to work with on the sequestration of AD CO<sub>2</sub>



# Thank You

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