

June 2021

Supporting the Energy Transition



 acorn

Petrofac 

Project Management Office Services

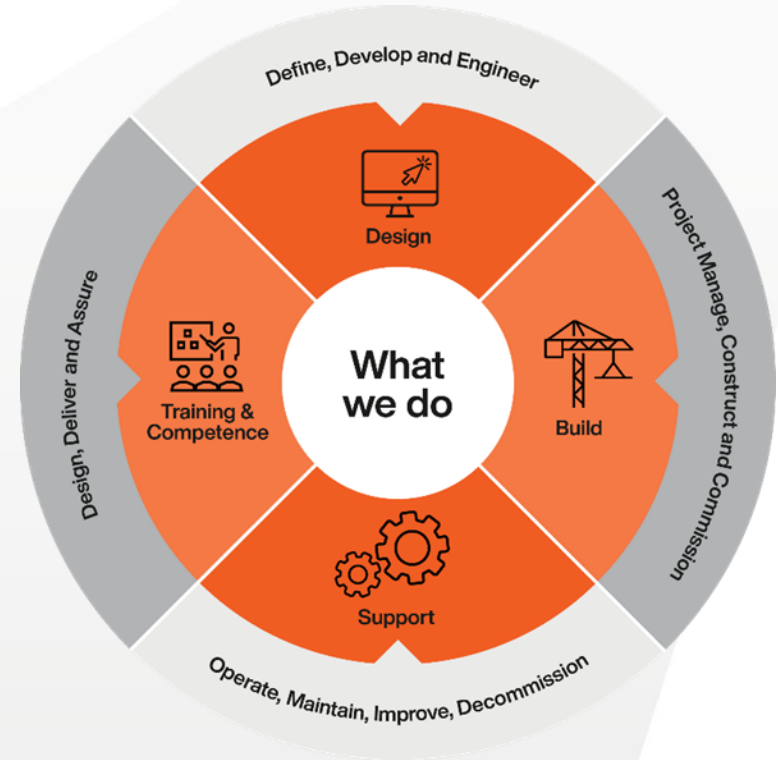
Personnel
Processes & Procedures
Performance Management – Dashboarding
Systems and Digitalisation Support
Supply Chain support

Owners Engineer Services

Multi-discipline technical support team
Construction and Commissioning services
Operations and Maintenance services
Dedicated technical resources

Front End Support Services

Technology qualification
Feasibility assessment
Concept development



Acorn Overview



Acorn - Phase 1 Overview



Establishing the CCS infrastructure



Low Capital Cost CO₂

Eliminating around 5/6Mt of CO₂ per year by 2030, starting with existing CO₂ emissions from the St Fergus gas terminal.



Pipeline reuse

420km of existing offshore pipeline suitable for CO₂ transport goes offshore from St Fergus.



World class CO₂ stores

An independently verified CO₂ store, with multiple growth opportunities.

A catalyst for clean growth



A major hydrogen production and CCS hub at St Fergus.



An economic opportunity for the deep-water port at Peterhead to include CO₂ import facilities.



An international CO₂ storage hub in the Central North Sea, importing CO₂ from Europe and other regions.



Enabling infrastructure to underpin a Net Zero Scottish Industrial Cluster.



Acorn can be rapidly scaled to support exciting new low carbon technologies like Direct Air Capture & Storage (DACs).

Acorn – A catalyst for green growth

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H₂ production hub

35%

of all natural gas currently used in the UK comes onshore at St Fergus.

CO₂ import facilities

8 Miles

from St Fergus gas terminal, Peterhead Port offers huge development opportunities for CO₂ import.

Decarbonising industry

90%

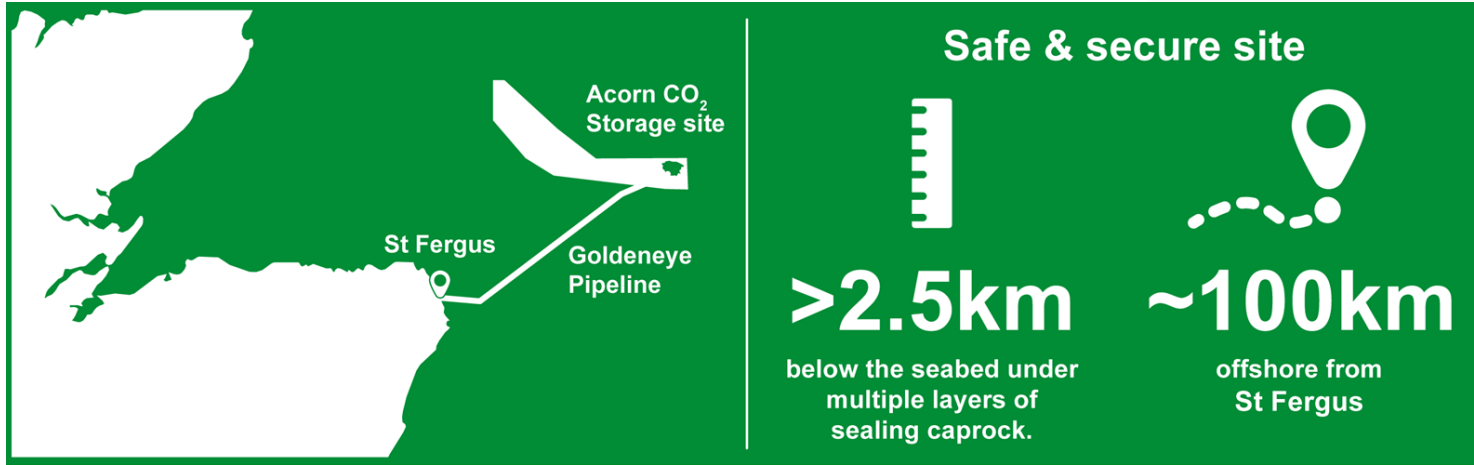
of Scotland's large site emissions are within 50km of Feeder 10, a natural gas pipeline ready for reuse.

World class storage

~30%

of the UK's CO₂ storage lies within 50km of the St Fergus pipeline corridors - enabling rapid scale up to support new low carbon technologies.

Acorn – A catalyst for green growth



Great CO₂ storage potential



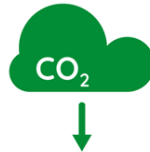
971km²

of world class CO₂ storage



~30Mt

storage resource for the first CO₂ store (Goldeneye)



>150Mt

storage resource for complete Acorn CO₂ Storage Site

Reusing infrastructure



Close to existing pipelines suitable for CO₂ transport

What this means for the Supply Chain

- Significant investment
- Local content
- Local skills development
- Long term opportunities
- Creating the foundation for CCS and Hydrogen in Scotland

