

ACT Knowledge Exchange Workshop - Bucharest 24th October 2017

















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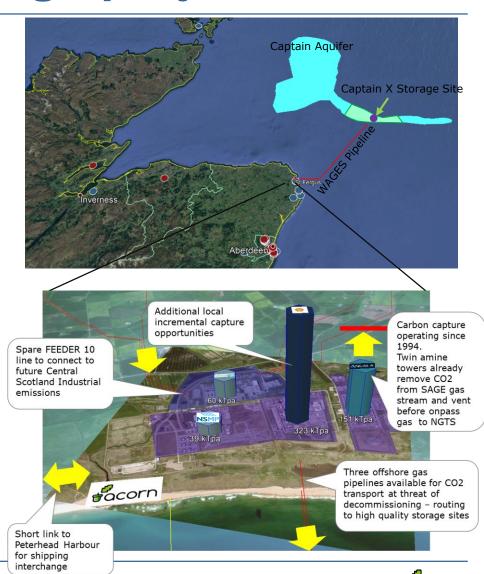


ACT Acorn, project 271500, has received funding from BEIS (UK), RCN (NO) and RVO (NL), and is cofunded by the European Commission under the ERA-Net instrument of the Horizon 2020 programme. ACT Grant number 691712.

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Acorn: a breakthrough project

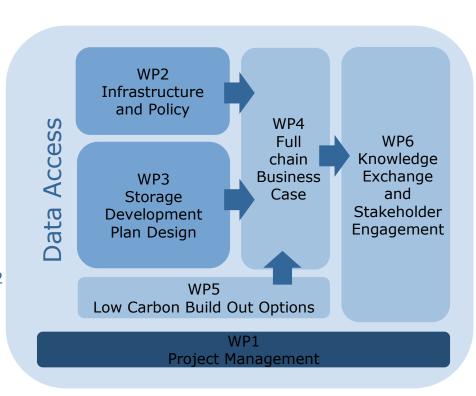
- Smallest viable full chain Industrial CCS project
 - Existing emissions from St Fergus gas terminals
- Seed infrastructure
 - Re-use opportunities
- Establish a strong build out
 - Multiplicity of transport& storage options
- Build upon work of others
- Significant interest in the project from a wide range of players





Acorn ACT Work Programme

- o 19 month, €2.9m project
 - (grant of €2m)
- 5 objectives
- 1. Produce a development plan & budget for a full chain ICCS hub
- 2. Identify options to increase storage efficiency & drive scientific advancement in this area
- 3. Explore build-out options including CO₂ import, H₂ manufacture and CO₂ utilisation
- 4. Develop policy recommendations to protect relevant infrastructure from premature decommissioning
- 5. Engage with stakeholders to disseminate the lessons and encourage replication & just transition





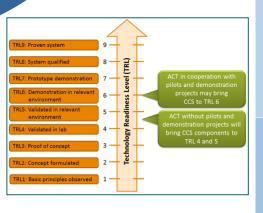
Project & Kick-off Participants





Overcoming hurdles to CCS

- Create a specification for an ultra-low cost, integrated CCS hub that can be scaled up at marginal cost
- Evolve the Acorn development opportunity from proof-of-concept (TRL3/4) to the pre-FEED stage (TRL5/6)



Subsurface science

- Understanding storage efficiency
- Geomechanics and rock strength
- Site selection & evaluation

Economic efficiency

- Minimum viable development
- Growth and build out
- Business models

Policy recommendations

- Just transition to regional decarbonisation
- Decommissioning hydrocarbon infrastructure
- Infrastructure re-use for CO₂ activity

Societal impact

- Perceptions and acceptance
- Replication around the World
- Life-cycle analysis



Knowledge Exchange

o Dissemination

- Scheduled stakeholder workshops, interviews & events
- Adhoc GCCSI, CATO & others in the future
- Sharing research outputs
 - Various channels, including; project website, vlog, news letter, long term data storage, targeted media engagement, social media & final report dissemination event

Collaboration opportunities with other projects

- Storage site selection workshop
- Site risk assessment workshops
- H₂ economy & CCS
- Societal acceptance



Status

Fully mobilised Commenced in August 2017 TOC Smaeheia Kollsnes Kick-off workshop was in sea Central Oslo N Sea lateSSEptember All contract documentation in p Advisory Board includes **GDCCUSC** © Pale Blue Dot Energy Ltd. 2017 Grangemoutiff Milestone complete 3 out of 21 deliverables produced Rotterdam Pale Activitie is in a packs Blue Recognised as a Pett Rotterdam



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