



Delivering cost-effective CCS in the 2020s: Scotland and Teesside clusters meeting

Event location: The John McIntyre Conference Centre, Edinburgh

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Date: Thursday 15 September

Start: 13.15

End: 16.45

New value from the North Sea; new life for heavy industries

Carbon dioxide (CO₂) emissions from industry account for nearly a fifth of the UK's total greenhouse gas emissions; carbon capture and storage (CCS) is currently the only option for achieving deep reductions from some industries, such as petrochemicals, cement, and refining. Major industrial clusters at Teesside and Grangemouth each produce large volumes of CO₂. With CO₂ capture technology in place, each cluster could handle several million tonnes of CO₂ a year, avoiding emissions and helping industry achieve decarbonisation targets. Availability of CCS infrastructure enables large-scale, low-carbon hydrogen supply allowing decarbonisation of 'hard to treat' transport and heat sectors. A coordinated approach and shared infrastructure for CO₂ transport to storage in well-characterised sites in the North Sea can help to deliver CCS cost-effectively.

Several large-scale CCS demonstration projects have been evaluated in Scotland. Numerous studies into the economic benefits of CCS clusters have pointed to cost efficiency through shared infrastructure and the conversion of existing equipment. The Teesside Collective project has developed a blueprint for industrial CCS, including technical feasibility studies, a business case and funding models. Industrial clusters in Scotland and north east England can benefit from access to a significant CO₂ storage asset beneath the Central North Sea (CNS). There is also the potential for developing CO₂ utilisation markets or CO₂-enhanced oil recovery. A CCS infrastructure developed for these clusters will create a North Sea hub, which can serve regional, national and European CO₂ storage needs and enable a new offshore industry in the longer term.

Against this background, our meeting of key stakeholders and invited participants will briefly review previous activity and then focus on the next steps needed to progress opportunities in the short- to mid-term.

Activities

13:15 Networking lunch

14:00 Stuart Haszeldine, University of Edinburgh: Chairman's introduction, briefly setting context and outlining process for session.

14:10 Alan James, Pale Blue Dot: CO₂ storage resources in Central North Sea, total opportunity, where best to develop first, offshore infrastructure – what relevant.

14:25 Pete Brownsort, SCCS: CO₂ emissions in Scotland, capture cluster opportunities, transport options – existing pipeline, shipping for import.

14:40 Teesside speaker (invited – TBC), Teesside Collective: Teesside Collective project scope and progress, potential capture volumes and timescale, transport and storage options.

14:55 Stephen Kerr, Summit Power: Caledonia Clean Energy Project, opportunities for broadening outputs beyond electricity generation, synergies with industrial cluster.

(Presentation timings include time for initial questions.)

15:10 Break

15:20 Further Q&A on presentations and discussions focussing on the following themes:

- Seed projects – what opportunities, what needed to get them going?
- Re-use of infrastructure – how much does it help? or does it limit?
- CO₂ for EOR – how can it help with short/mid term developments?
- How to build value / reduce barriers through synergies between clusters?
- Links to other areas (other UK, Europe, Norway) – what is the potential?

16:20 Group review of options discussed plus potential links to other CCS activities

- What have we learned?
- What needs to be done next?
- How to progress it?

16.45 END



Joining instructions

Please confirm your attendance to the meeting organisers:

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Venue details

Prestonfield Room,
John McIntyre Conference Centre,
Pollock Halls,
18 Holyrood Park Rd,
Edinburgh,
EH16 5AY,
United Kingdom.

A map and other details on the conference centre are available online here:

<http://www.edinburghfirst.co.uk/venues/john-mcintyre-conference-centre/>