

Delivering Cost Effective CCS in the 2020s: supporting a carbon neutral south east

Event location: 58 Princess Gate, Imperial College, London

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Date: Mon 23rd January 2017

Start: 10.00 for 10.30 End: 15.30

Background

Achieving 2050 CO₂ emission targets and subsequently net zero emissions will be challenging without CCS. So shaping current infrastructure planning to facilitate CCS is an effective way to future-proof major investments in energy-intensive assets, including heating and power systems in cities, utility power plants, industry, transport and gas and electricity supply networks.

The SE has significant CO₂ emissions from a range of sources. A shared CCS pipeline and offshore CO₂ storage infrastructure for the power sector, energy intensive industry and other possible uses such as hydrogen production is feasible from the Thames Estuary area. Pipelines are the only likely option if CCS is to be deployed at significant scale in the UK (order 10 MtCO₂/yr and above), but in the short term and for isolated sources CO₂ shipping from and to the SE may also be an option.

While the timescale for deployment depends ultimately on international policy developments planning for CCS is an essential part of a future-proofing strategy for the SE.

Versions of the presentations and a Chatham House Rule summary of the discussion will be made publicly available on the UKCCSRC web site.

Activities*

(timing may be adjusted to suit the way the discussions develop, but with a hard stop at 15.30)

10:00 Arrivals & tea / coffee

10:30 1. Purpose of the Day – Prof Jon Gibbins, UKCCSRC

10:40 2. Power & CCS in the South East - Prof Jon Gibbins, UKCCSRC

11:00 3. Decarbonising Heat & the Transport Sector - Dan Sadler, Northern Gas Networks

11:30 4. The Potential for Offshore Storage – Den Gammer, ETI

12:00 5. Infrastructure Requirements – James Watt, Amec Foster Wheeler

12.30 Lunch

13.15 6. Is Shipping A Viable Option? – Bruce Adderley, UKCCSRC

13.30 7. The Legal Complexities of CCS – Raphael Heffron & Lauren Downes,
Queen Mary University London

14.00 8. Full group review of options plus potential links to other regions / CCS activities

- WHAT HAVE WE LEARNED?
- WHAT NEEDS TO BE DONE NEXT?
- HOW TO PROGRESS IT?

15.30 End

* Activities 1 through 7 will consist of a presentation followed by a brief Q&A opportunity