

AGENDA
5th CCS Cost Network Workshop
London, September 2017

Imperial College London (South Kensington Campus), Roderic Hill Building, Room C615

Wednesday, September 13, 2017

9:00 Welcomes

9:15 Session 1: Learnings from Recent UK Studies

Chair: Jon Gibbins

- a. UK costs for a range of CCS technologies
Suzanne Ferguson, Amec FW
- b. Natural Gas Post-combustion - Den
Gammer/Andrew Green, ETI

10:45 Break

11:00 Session 2: Cost of large-scale CCS projects

Chair: Jeff Hoffmann

- a. Petra Nova – David Greeson
- b. Quest - Wilfried Maas

12:30 Lunch

1:45 Session 3: Cost of emerging processes

Chair: George Booras

- a. Update on NET Power: Demonstration and Commercial Activities, Mike McGroddy, 8 Rivers
- b. The Economics of MTR Membrane-based CO₂ Capture, Tim Merkel, Membrane Technology & Research (MTR)
- c. Demonstrating CO₂ capture <\$40/ton: Experience from Industrial Projects, Prateek Bumb, Carbon Clean Solutions

3:15 Break

3:45 Session 4: CCS in Energy-Economic models

Chair: Keith Burnard

- a. A review of CCS techno-economic representation in Integrated Assessment Models - James Glynn University College Cork
- b. What is the role of CCS in determining costs and climate outcomes of scenario

analysis in Integrated Assessment Models? - Richard Millar, Oxford University

5.00 Networking reception (at Imperial)

7.30 Dinner, Coco Momo, 25 Gloucester Road

Thursday, September 14, 2017

9:00 Session 5: CCS Flexibility

Chair: Howard Herzog

a. Quantifying and qualifying the role and value of flexible CCS to the decarbonisation of national electricity systems, Clara Heuberger, Imperial

b. Decarbonising the Australian National Electricity Market - Implications for CCS, Andy Boston, Red Vector

10:30 Three parallel breakout sessions

A. Energy-Economic Models: Is CCS being represented appropriately? (co-chairs: Howard Herzog, Ed Rubin)

B. Learnings from demonstration projects: what will the next plant cost? (co-chairs: Jeff Hoffmann, George Booras)

C. Beyond demonstrations: CCS projects with multiple repeat units (co-chairs: Jon Gibbins, Den Gammer)

1:30 Lunch

2:30 Breakout Reports

3:15 General Discussion

3:45 Next meeting – Topics, Location, Timing

4:00 Adjourn

Attendee list (provisional)

Rodney	Allam	8 Rivers Capital
Niels	Berghout	IEA
Nick	Bevan	BEIS
George	Booras	EPRI
Andy	Boston	Red Vector
Sara	Budinis	Imperial College London
Prateek	Bumb	Carbon Clean Solutions Limited
Keith	Burnard	IEAGHG
Kong	Chyong	EPRG, University of Cambridge
Harvinder	Deol	Trinity International LLP
Suzanne	Ferguson	Amec Foster Wheeler
Brock	Forrest	8 Rivers Capital
Jonathan	Forsyth	BP International Limited
Den	Gammer	ETI
Monica	Garcia Ortega	IEAGHG
Jon	Gibbins	UK CCS Research Centre
James	Glynn	MaREI - ERI - University College Cork
Andrew	Green	ETI
David	Greeson	NRG Energy, Inc (video lecture)
Leigh	Hackett	Industria Mundum AG
James	Hall	Carbon Clean Solutions
Clara	Heuberger	Imperial College
Howard	Herzog	MIT
Jeffrey	Hoffmann	US DOE National Energy Technology Laboratory
Lawrence	Irlam	Global CCS Institute
Anthony	Ku	NICE
Will	Lochhead	BEIS
Wilfried	Maas	Shell
Niall	Mac Dowell	Imperial College
Luca	Mancuso	Amec Foster Wheeler
Des	McCabe	Ervia
Michael	McGroddy	8 Rivers/NET Power
Mike	Monea	CCS Knowledge Centre
Tim	Merkel	MTR
Richard	Millar	University of Oxford
Andrea	Ramirez Ramirez	Delft University of Technology
Simon	Roussanaly	SINTEF Energy Research
Ann	Satsangi	US Department of Energy
Ragnhild	Skagestad	Tel-Tek
John	Thompson	Clean Air Task Force
Eleni	Tsalaporta	University College Cork
Machteld	van den Broek	Utrecht University