European Carbon Capture and Storage

CCS in Europe – Are we at a crossroads?

27-28 February 2012 • Hilton Tower Bridge Hotel • London, UK

Hear from over 30 industry leading speakers:
• Department of Energy and Climate Change, UK Government
• Shell
• Vattenfall
• 2Co Energy
• Statoil
• Global CCS Institute (GCCSI)
• SINTEF
• European Commission
• European Investment Bank (EIB)
• Technology Centre Mongstad (TCM)
• E.ON
• Enel
• ROAD
• Scottish Southern Energy (SEE)
• ScottishPower
• Sener
• National Centre for Carbon Capture and Storage (NCCCS)
• CO2Sense Yorkshire
• DNV
• Fluor
• Maersk Oil
• Carbon Capture and Storage Association (CCSA)
• The Energy Technologies Institute (ETI)
• Zero Emissions Platform (ZEP)
• Zurich Global Corporate
• CCS TLM
• Sofregaz
• University of Sheffield
• Platts
• Shenhua Group
• Archer Daniels Midland Company (ADM)
• Alberta Energy
• U.S. Department of Energy
• Co-operative Research Centre for Greenhouse Gas Technologies (C02CRC)

2012 keynotes include:
Charles Hendry MP, Minister of State for the Department of Energy and Climate Change, UK Government
Simon Brooks, CB, Vice President, European Investment Bank (EIB)
Graeme Sweeney, Executive Vice President, CO2, Shell

A snapshot of industry leaders presenting in 2012:
• Prof. Lars Strömberg, Senior Advisor, Vattenfall
• Lewis Gillies, Chief Executive and Co-Founder, 2Co Energy
• Kai Bj. Lima, Vice President New Energy, TNE NE CO2 Management, Statoil
• Martina Doppelhammer, Senior Policy Officer & Policy Co-Ordinator, CCS & NER300, DG Climate Action, European Commission
• John Scowcroft, General Manager, Europe, Global CCS Institute (GCCSI)
• Peter Radgen, Head of E.ON Innovation Center Carbon Capture & Storage, E.ON
• Jeremy Carey, Technology Manager, Generation, Scottish Southern Energy (SEE)
• Pompilio Caramusco, Engineering & Innovation, Enel
• Zhang Jiming, Vice President, China Shenhua Coal to Liquid and Chemical Co. and General Manager, Ordos Coal Liquefaction (the world’s first modern direct coal liquefaction plant with a capacity of 1 million tons per year)

2012 - More sessions, stronger focus on the storage challenge and greater networking opportunities
• Driving CCS forward – Industry leaders discuss their thoughts
• EU policy and NER300 update
• European project case-studies: Reducing the cost and improving the efficiency of capturing CO2, Including: Peterhead, Porto Tolle, ROAD, Mongstad, Wilhelmshaven
• Global perspectives: How is the rest of the world incentivizing CCS?
  Hear from Canada, the US, Australia and China
• North Sea storage: How do we galvanize action?
• CO2 storage case-studies - lessons learnt and experience gained
  Including: Otway - Snøhvit and Sleipner
• Encouraging CCS investment
• Creating an efficient demand delivering CCS infrastructure – Challenges faced and opportunities available
• Panel discussion: The big ask - Changing the dynamics of public engagement moderated by ZEP

Day 2 breakfast sponsor: Lanyard and name badge sponsor:

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Platts European Carbon Capture and Storage conference has become a benchmark for the industry. In its six year history the event has grown together with the industry and provided attendees with an unrivalled overview of European CCS and its development. It has provided attendees with the latest in policy developments, tackled deployment challenges like finance, public awareness and storage liability, and showcased the leading projects in their various stages from Europe and from around the world.

Day one: Monday 27 February 2012

08:00 Registration and continental breakfast

08:50 Chairman’s welcoming remarks

Prof. Jeff Chapman, Chief Executive Officer, Carbon Capture and Storage Association (CCSA)

Driving CCS forward – Industry leaders discuss their thoughts

09:00 Comprehensive overview of European CCS development, its status and current challenges in the context of an evolving European generation mix

• Progress in the removal of deployment barriers – Legal, technological and social
• How is European climate policy changing in the wake of Fukushima and what does it mean for CCS moving forward?
• Will the region’s increasing share of renewables impact CCS commercialisation?

John Scowcroft, General Manager, Europe, Global CCS Institute (GCCSI)

09:25 KEYNOTE ADDRESS

China’s first CCS project – Lessons learnt and challenges faced

Zhang Jiming, Vice President, China Shenhua Coal to Liquid and Chemical Co. and General Manager, Ordos Coal Liquefaction (the world’s first modern direct coal liquefaction plant with a capacity of 1 million tons per year)

09:50 Networking and refreshment break

10:15 Accelerating CCS development globally – One year on

• Understanding the importance of time and standardisation
• Addressing CCS economics and reducing costs further
• Togetherness and knowledge share as key drivers

Graeme Sweeney, Executive Vice President, CO2, Shell

10:30 Panel Discussion: Driving CCS forward – Industry leaders discuss challenges

Moderated by: Henry Edwards-Evans, Managing Editor, Power in Europe, Platts

WEB: www.carboncapturestorage.platts.com

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The current and future regulatory environment: What needs to be done to create a secure and confidence building policy framework for CCS?

11:05 KEYNOTE ADDRESS

CCS progress in the UK

• Update on the first CCS Demonstration Programme
• How do we start to bring together the NER300 and UK policy?
• What is the UK doing to overcoming the continued practical and technical challenges for CCS growth: Paving the way for Demonstrations 2-4
• Investment in the CCS market and moving towards its commercial deployment in the UK
• The long-term CCS strategy and implementing the 2050 roadmap

Charles Hendry MP, Minister of State for the Department of Energy and Climate Change, UK Government

11:30 EUROPEAN COMMISSION

Implementing the 2050 roadmaps – enabling CCS demonstration and deployment

• CCS-Directive and NER 300 - state of play of implementation
• Policy challenges faced and barriers to be overcome
• Bending the learning curve – Update on the CCS Project Network

Martina Doppelhammer, Senior Policy Officer & Policy Coordinator, CCS & NER 300, DG Climate Action, European Commission

Simon Bennett, Manager, CCS Project Network, Directorate-General Energy, European Commission

12:00 PANEL DISCUSSION

Driving CCS forward – Are we on course to achieve commercial availability by 2020 and kick-start widespread deployment in Europe?

• Is CCS on track to become one of the key technologies for meeting Europe’s energy goals?
• Creating the market for CCS – Are we on course?
• How do we mobilise member states?
• Can European deployment be achieved without onshore storage?
• Are timelines shifting more to the right? How will this impact commercialisation?
• What is the single biggest challenge preventing CCS deployment?
• Why have projects been cancelled and what can we learn from these experiences?
• What have we learnt from the NER300 process?
• Are CCS economics improving along the supply chain?
• Are governments doing all they can to provide the right investment platforms?
• Is current policy creating that much needed certainty and confidence needed by investors?
• Where is the next level of cost effectiveness coming from?

Graeme Sweeney, Executive Vice President, CO2, Shell

Prof. Lars Strömberg, Senior Advisor, Vattenfall

Peter Radgen, Head of E.ON Innovation Center Carbon Capture & Storage, E.ON

Martina Doppelhammer, Senior Policy Officer & Policy Co-ordinator, CCS & NER300, DG Climate Action, European Commission

Paul Bryant, Chief Executive Officer, CCS TLM

Moderated by: Henry Edwards-Evans, Managing Editor, Power in Europe, Platts
12:30 Networking lunch

Encouraging CCS investment: Achieving confidence and certainly

13:45 KEYNOTE ADDRESS
CCS - The view from the EIB
Simon Brooks, CB, Vice President, European Investment Bank (EIB)

14:10 Understanding the cost-competitiveness of CCS - Key conclusions from the ZEP cost report
Prof. Lars Strömberg, Senior Advisor, Vattenfall

16:55 TRI4CCS - The CCS R&D Alliance
• The next step of CCS development will require huge resources for supporting development and deployment
• Critical gaps in development and deployment of CCS
• CCS is here to stay albeit the framework at present does not help to accelerate CCS to the pace it deserves
• What can the TRI4CCS offer to the area
• Defragmenting CCS R&D - promoting quality and volume that is unparalleled in a new operational framework
Nils A. Røkke, Vice President, Climate Technologies, SINTEF

16:20 Networking and refreshment break

European project case-studies: Reducing the cost and improving the efficiency of capturing CO₂

16:45 Peterhead
• SSE’s rationale for CCS on gas rather than coal
• An overview of the projects progress, technically and commercially
• Key challenges remaining
Jeremy Carey, Technology Manager, Generation, Scottish Southern Energy (SEE)

17:05 CCS project update - Porto Tolle
• Progress report
• Brindisi pilot plant activities
Pompilio Caramascio, Engineering & Innovation, Enel

17:25 Update on the ROAD CCS demo project in Rotterdam
• Progress report
• Challenges faced
• Lessons learnt
Dr. Andy Read, Capture Director, ROAD

17:45 JOINT PRESENTATION
Planning, construction and operation of the Wilhelmshaven Pilot Plant
• Progress report
• Challenges faced
• Lessons learnt
Peter Radgen, Head of E.ON Innovation Center Carbon Capture & Storage, E.ON
Dr. Satish Reddy, Executive Director, Process Technology, Fluor

18:15 Networking reception

Day two: Tuesday 28 February 2012

08:00 Registration and continental breakfast
sponsored by: MANAGING RISK

08:50 Chairman’s welcoming remarks and review of day one
Prof. Jeff Chapman, Chief Executive Officer, Carbon Capture and Storage Association (CCSA)
09:00 The Don Valley project’s progress and the value of EOR with CO2 storage in enabling the CCS industry
- Progress I financing CCS
- EOR as a CCS enabler
- How CCS and EOR align and deliver on multiple government policies

Lewis Gillies, Chief Executive and Co-Founder, 2Co Energy

Global perspectives: How is the rest of the world incentivising CCS?
09:25 The current state of play in Canada
- An overview of CCS projects and policy initiatives in Canada, with a focus on the Province of Alberta’s initiatives
- Update on the large scale CCS projects announced in Canada
- Beyond projects/regulatory framework initiatives

Sandra Locke, Executive Director, CCS Development and Energy Efficiency, Alberta Energy

09:50 Certification of the QUEST Storage Development Plan – Process and lessons learned

Jørg Espen Aarnes, Principal Consultant, DNV Cleaner Energy, Canada

10:15 The United States’ large-scale CCS demonstration project portfolio – Current status
- The activities and focus of the Department of Energy’s “Office of Fossil Energy” and how we believe we are meeting the goals of advancing carbon capture, utilization, and storage (CCUS) technologies that increase efficiencies, decrease emissions, and reduce costs
- The Office of Fossil Energy’s “Research, Development, and Demonstration program” (RD&D) which includes the Carbon Sequestration Regional Partnerships and the Major Demo Program (FutureGen, Clean Coal Power Initiative, Industrial Carbon Capture)
- An update on the activities of the American Recovery and Reinvestment Act of 2009 (ARRA), including an update on all CCUS projects currently underway

Joseph Giove III, Director, Division of CCS Demonstrations, Office of Fossil Energy, U.S. Department of Energy

10:40 Networking and refreshment break

11:10 Carbon capture and storage projects in the Illinois basin - Project overviews, lessons learned and future plans
- Overview of the projects currently underway at the ADM Decatur IL Agricultural and Biofuels Production Complex
- Environmental and economic benefits of the projects
- Lessons learned from the projects
- How does this promote development and deployment of CCS technology?
- Future plans for the projects and the site

Scott McDonald, Project Director, IL-ICCS Project, Archer Daniels Midland Company (ADM)

European CO2 storage: Options, scale and risk
11:35 Storage – A key to CCS
- Role in the value chain
- The nature of storage
- Regulatory framework and predictability
- Liabilities
- Commerciality

Kai Bj. Lima, Vice President, CO2 Management, Statoil

12:00 Leveraging storage know how to energise the CCS chain
- Engineering real CO2 storage projects: What have we learnt?
- Turning national capacity assessments into a valued resource
- Expanding CO2EOR globally and the implications for early CCS projects
- Appraisal and cost requirements to access the saline aquifer storage volumes
- Grasping the liability and skills nettle
- Public and policy impacts of onshore storage

Grahame Smith, Technical Director, Senergy

12:25 Beyond the demos – The role of The Crown Estate in the development of UK offshore CO2 storage
- Spatial planning and co-location of energy developments on the UK continental shelf
- Accessing storage sites: Hurdles and challenges
- Facilitating site exploration and appraisal
- Options for competitive CO2 storage site leasing
- Linking transport and storage infrastructure design

Dr. Ward Goldthorpe, Programme Manager, Carbon Capture Storage and Gas Storage, the Crown Estate

12:50 Networking lunch

14:00 The long term liability for storing CO2 and potential risk management options
- CCS roadmap and project lifecycle
- EU CCS directive and requirements for financial security
- Short, medium and long-term liability
- Risk management framework options

John Scott, Chief Risk Officer, Zurich Global Corporate

CO2 storage case-studies - Lessons learnt and experience gained
14:25 New developments from the Otway storage project and CO2CRC’s capture program
- Five recent sub-surface experiments at Otway give new insights into better quantification of residual trapping volumes when designing large scale storage sites
- CO2CRC’s capture program offers promise for substantial reductions in operating costs for carbon capture in next generation plants

Dr Richard Aldous, Chief Executive Officer, Co-operative Research Centre for Greenhouse Gas Technologies (CO2CRC)

$ Group booking discount available!
14:50 Experience in offshore CO₂ storage operations: Snøhvit and Sleipner
- Experience with 15 years operation and monitoring at Sleipner
- Experience with managing CO₂ injection wells at Snøhvit and Sleipner
- Offshore storage - challenges and potential
Dr. Philip Ringrose, Project Manager, CO₂ Storage R&D, Statoil

15:15 Networking and refreshment break

European CO₂ storage: The role and value of enhanced oil recovery (EOR)

15:45 CCS with enhanced oil recovery in the Danish North Sea
Lars Hende, Director, Commercial and Strategy, CO₂ EOR, Maersk Oil

16:10 PANEL DISCUSSION
Storage and the North Sea: How do we galvanize action?
Frédéric Veny, Joint Managing Director, Sofregaz
Lewis Gillies, Chief Executive and Co-Founder, 2Co Energy
Dr. Ward Goldthorpe, Programme Manager, Carbon Capture Storage and Gas Storage, The Crown Estate
Lars Hende, Director, Commercial and Strategy, CO₂ EOR, Maersk Oil
Moderated by: Dr. Stephen Brown, Director of Strategy and Innovation, CO₂Sense Yorkshire

Preparing for deployment: CO₂ infrastructure and transportation development

16:40 Establishing a carbon capture and storage cluster in Yorkshire and Humber – One year on
Dr. Stephen Brown, Director of Strategy and Innovation, CO₂Sense Yorkshire

Looking to the future

17:15 The long term fate of CO₂ in the subsurface environment
- Theory of long term storage: Storage basics, modelling and experiment
- How do we design a regulatory framework to fit?
- How do we solve the investment problem?
Prof. Michael Stephenson, Head of Science, British Geological Survey, Director, the Nottingham Centre for Carbon Capture and Storage (NCCCS)

17:40 Carbon capture and utilisation: A pipe dream or future reality?
Prof. Peter Styring, Chair, CO₂Chem Network, University of Sheffield

18:15 End of conference

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- Quality throughout its history — Testimonials:
“As a renowned provider of information services in the energy sector it was befitting that Platts were the first to organize a European conference on Carbon Capture & Storage. After five years the annual Platts CCS conference has gained enormous support from high level speakers and attendees alike. I have had the privilege to moderate all of the events and I am looking forward to another successful conference in London.”
Jeff Chapman, Chief Executive Officer, Carbon Capture and Storage Association (CCSA) and Conference Chair

--- 2011 ---
“Excellent — well staffed, well thought out and planned, well attended, great venue.”
Devin Shaw, Cawsolv Technologies

--- 2010 ---
“Very good, a well balanced programme with highly informative speakers.”
Stephen Brown, CO₂Sense

--- 2009 ---
“I’m impressed on almost everything. Good speakers, good presentations, good audience. Very nice and helpful networking in the breaks”
Benjamin Goerge, Lahmeyer International

--- 2008 ---
“I find conferences of this size, with a strong focus on one topic/technology, very efficient. Excellent speakers and a well informed audience allowing for very good, interactive sessions.”
Anna Lehmann, Sindicatum Carbon Capital

--- 2007 ---
“Generally excellent — This one was first class.”
John Reilly, Bord Na Mona Energy

- Platts upcoming events
3rd Annual European Renewable Energy Markets
26-27 January 2012
Berlin, Germany

6th Annual European Gas Storage
19-20 March 2012
Amsterdam, The Netherlands

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30-31 January 2012
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3rd Annual European Power Generation
26-27 April 2012
Amsterdam, The Netherlands

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A limited number of rooms have been reserved for Platts 6th Annual European Carbon Capture and Storage conference participants at the Hilton London Tower Bridge Hotel at the following rates:

- 26th Feb - Standard guestrooms - £119 per night
- 27th Feb - Standard guestrooms - £229 per night

The discounted rates are for the nights of February 26 and 27 2012 only and will be honoured until February 6 2012 — based on availability. To reserve a room please call the hotel directly on +44 (0)20-3002-4300 quoting our discount code APLAA.

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Your registration may be transferred to a member of your organisation up to 24 hours in advance of the conference. Cancellations must be received in writing on or before 20 February 2012 in order to be refunded, less a $195 administrative charge. No refunds will be made after this date. In case of conference cancellation, Platts liability is limited to refund of the conference registration fee only. Platts reserves the right to alter this program without prior notice.

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