

The 3rd Annual European Carbon Capture & Storage Summit

Le Meridien Piccadilly, London W1

Both the challenges and opportunities of CCS are coming into greater focus in the run up to Copenhagen, where world premiers will gather to address issues of climate change. The EU has made a firm commitment to developing CCS as a method by which to reduce carbon emissions, firstly, by the commission's announcement to contribute up to €50m to help China build a facility to test carbon capture and storage technology, and secondly, by having a dozen or so demonstration plants running by 2015 on the continent. The UK are also following suit, with a commitment from the government to provide financial support for up to four commercial scale CCS projects in Britain, and if the technology is proven, to be prepared for a nationwide roll out.

As a part of this commitment the UK government also unveiled a new strategy of pursuing coal power, pledging that no new coal plants will be developed unless they were able to store some of their carbon emissions underground. Renewable energy and energy efficiency were the main beneficiaries of the green measures in this year's budget. The Chancellor presented the first carbon budget, whereby the UK would cut its greenhouse gas emissions by 34% by 2020 compared with 1990 levels.

However, developing CCS is a costly exercise with projected costs to build and operate each demonstration plant estimated to be in excess of €1bn. The current economic crisis does not help the financial obstacles that the EU faces in funding demonstration projects, with reports suggesting that there is potential funding shortfall for the dozen or so pilot projects.

With many challenges and opportunities facing CCS at the moment, City & Financial bring you this timely summit, the third in the series, to discuss and debate some of these key issues by bringing together a speaker panel of exceptional quality. This year's agenda will take a closer look at the current economic climate, to give an update from European projects and UK demonstration projects, look at public perception of CCS, environmental issues, include in depth discussions about the technology, economics and financing, legislation and risk management and finally international progress.

Attendance at this conference will be invaluable for all those involved in the development of CCS in Europe including generating and utility companies, technology suppliers, oil and gas companies, energy ministries, energy regulators, project financiers, lawyers, technical consultants and academics.

KEYNOTE ADDRESSES

Simon Brooks, Vice President, European Investment Bank
Charles Hendry, Shadow Minister for Energy, Conservative Party
Gardiner Hill, Vice-Chair, ZEP & Manager CCS Technology & Engineering, BP

Derek Taylor, Director of BEST (Bellona Environmental CCS Team) Leadership Forum, Bellona Foundation
Piot Tulej, Head of Unit, Energy and Environment, European Commission

PUBLIC AND NOT FOR PROFIT SECTOR SPEAKERS

Milton Catelin, Chief Executive, World Coal Institute
Jon Gibbins, Senior Lecturer, Energy Technology for Sustainable Development Group, Mechanical Engineering Department, Imperial College London
Prof. Stuart Haszeldine, Scottish Centre for CCS
Richard Macrory, Director CCLP, University College London
Darren Mollot, Acting Director, Office of Fossil Energy, US Department of Energy

Kevin Myers, Deputy Chief Executive, Health and Safety Executive
Bronwen Northmore, Head of CCS Policy, Department for Energy and Climate Change
Jan Panek, Head of Unit, Coal and Oil, European Commission
David Rainer, University of Cambridge
Emily Rochon, CCS Policy Coordinator, Greenpeace International
Stanley Santos, Project Manager Capture and Integrated Systems, IEA Greenhouse Gas R&D Programme

PRIVATE SECTOR SPEAKERS

Stephen Adamson, Commercial Manager CCS, Scottish Power
Andrew Austin, Senior Associate, Freshfields Bruckhaus Deringer LLP
Bjørn Bergensen, Commercial Director, Gassnova SF
John Best, Chief Executive, East of England Energy Group (EEGR)
Dr Tony Booer, Schlumberger Oilfield
Paul Bowden, Partner, Freshfields Bruckhaus Deringer LLP
Grant Budge, Director, Powerfuel Power Ltd
Keith Burnard, Senior Energy Technology Specialist, International Energy Agency
Jeff Chapman, Chief Executive, Carbon Capture and Storage Association
Tom Greenwood, European CCS Analyst, New Energy Finance
Klaus Hammer, Managing Director - Generation, Eon UK
Phil Hare, Director, Pöyry Energy Consulting

Nick Horler, Chief Executive, Scottish Power
Robin Irons, Technical Head, Zero Emission Power Plant, Eon UK
Jia Li, General Manager, Linkschina Investment Advisory, China
Ian Phillips, Director CO2 Infrastructure, CO2 Deepstore Ltd
Gareth Price, Partner, Allen & Overy
Dr Nicholas Riley, Head of Science Policy Europe, Coordinator of CO2, Geonet
Philip Sharman, Director Technology - External Affairs, Alstom
Ian Temperton, Managing Director, Advisory, Climate Change Capital
Chris Train, Director of Network Operations, National Grid
Richard Vernon, Principal-Energy, SLR Consulting
Justin Watts, Partner, Freshfields Bruckhaus Deringer LLP
Guillaume Wolf, CCS Sector Leader, Mott MacDonald

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08:40 Coffee and registration

09:20 Chairman's opening remarks
Jeff Chapman, Chief Executive,
 Carbon Capture and Storage Association

09:25 Keynote I - Achieving the EU's environmental goals through CCS
Piot Tulej, Head of Unit, Energy and Environment, European Commission

DEVELOPING CCS IN THE CURRENT FINANCIAL AND ECONOMIC CLIMATE

09:45 Panel discussion on latest developments

- Future of demonstration projects
- Meeting existing targets and goals
- CCS in the European economic recovery package
- Public perception of CCS
- Retrofitting future UK coal power stations with CCS

Jan Panek, Head of Unit, Coal & Oil, European Commission
Bronwen Northmore, Head of CCS Policy, Department for Energy and Climate Change
Jon Gibbins, Senior Lecturer, Energy Technology for Sustainable Development Group, Mechanical Engineering Department, Imperial College London
Phil Hare, Director, Pöyry Energy Consulting

10:50 Morning coffee

11:10 Issues surrounding public perception of CCS

International learning

David Rainer, University of Cambridge

Regional delivery

John Best, Chief Executive, East of England Energy Group

11:40 CCS developments in Norway
Bjørn Bergensen, Commercial Director, Gassnova SF

UPDATE OF UK DEMONSTRATION PROJECTS

12:00 The future role for coal - how the Thames cluster can show the way
Klaus Hammer, Managing Director- Generation, Eon UK

12:25 Making the UK a world leader in CCS technology
Nick Horler, Chief Executive, Scottish Power

12:50 Lunch

13:50 Keynote II - CCS: key to a low carbon economy
Charles Hendry, Shadow Minister for Energy, Conservative Party

14:10 Looking at the environmental merits of CCS - will it really work?
Milton Catelin, Chief Executive, World Coal Institute
Emily Rochon, CCS Policy Coordinator, Greenpeace International

TECHNOLOGY

14:40 Developing new capture technology and its implications - a panel discussion
Stanley Santos, Project Manager Capture and Integrated Systems, IEA Greenhouse Gas R&D Programme
Philip Sharman, Director Technology - External Affairs, Alstom
Robin Irons, Technical Head, Zero Emission Power Plant, Eon UK

15:20 Longannet: UK's first carbon capture trial
Stephen Adamson, Commercial Manager CCS, Scottish Power

15:40 Afternoon tea

16:00 Issues facing CO2 transportation
Chris Train, Director of Network Operations, National Grid

16:20 Storage - verification, monitoring and leakage - a panel discussion
Dr Nicholas Riley, Head of Science Policy Europe, Coordinator of CO2, Geonet
Prof. Stuart Haszeldine, Scottish Centre for CCS

16:50 Storage - Learning from the North American experience
Dr Tony Booer, Schlumberger Oilfield

17:10 The current position of the potential for CCS on the island of Ireland
Richard Vernon, Principal-Energy, SLR Consulting

17:30 Close of day one

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DAY TWO - THURSDAY 19th NOVEMBER 2009

08:30 Coffee

09:00 **Chairman's opening remarks**
Phil Hare, Director, Pöyry Energy Consulting

09:05 **Keynote I - ZEP's vision for EU leadership on CCS**
Gardiner Hill, Vice-Chair, ZEP & Manager CCS Technology & Engineering, BP

09:25 **Keynote II - Roadmaps and more for the development of CCS - in Europa and beyond - the BEST Project**
Derek Taylor, Director of BEST (Bellona Environmental CCS Team) Leadership Forum, Bellona Foundation

ECONOMICS, FINANCING AND REGULATION

09:45 **Keynote III - Looking at EU and national government funding towards CCS projects**
Simon Brooks, Vice President, European Investment Bank

10:05 **Financing CCS projects - innovative and practical measures**
Ian Temperton, Managing Director Advisory, Climate Change Capital

10:25 **Economic cost modelling - comparing different technologies**
Tom Greenwood, European CCS Analyst, New Energy Finance

10:50 Morning coffee

11:10 **Developments of UK and EU regulation - an update**
Ian Phillips, Director, CO2 Infrastructure, CO2 Deepstore Ltd

LEGISLATION AND RISK MANAGEMENT

11:30 **Managing the liabilities and legal responsibilities - an overview of the key issues**
Andrew Austin, Freshfields Bruckhaus Deringer LLP

11:50 **Managing the liabilities and legal responsibilities - a panel discussion**
Chair: Paul Bowden, Partner, Freshfields Bruckhaus Deringer LLP
Richard Macrory, Director CCLP, University College London
Gareth Price, Partner, Allen & Overy
Justin Watts, Partner, Freshfields Bruckhaus Deringer LLP

12:40 **Health and safety risks arising from CCS**
Kevin Myers, Deputy Chief Executive, Health and Safety Executive

13:00 Lunch

INTERNATIONAL PROGRESS IN CCS

14:00 **A sustainable design for CCS in a competitive power market**
Grant Budge, Director, Powerfuel Power Ltd

14:20 **An IEA perspective on the role of CCS**
Keith Burnard, Senior Energy Technology Specialist, International Energy Agency

14:40 **The new administration's vision for coal**
Darren Mollot, Acting Director, Office of Fossil Energy, US Department of Energy

15:00 **Current developments of CCS in China**
Jia Li, General Manager, LinksChina Investment Advisory, China

15:20 **Carbon capture-ready design of ultra mega power projects in India**
Guillaume Wolf, CCS Sector Leader, Mott MacDonald

15:40 End of summit

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