



Carbon Capture & Storage Association

Issue No. 32
Week 1 October 2009

CCSA Weekly Newsletter

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Our website

For more information about the Carbon Capture & Storage Association, our members, news highlights, events, links and much more please visit our website.

www.0Hccsassociation.org

UK News

DECC launches consultation on licensing regime

24 September 09 - The Department of Energy and Climate Change (DECC) has launched a new consultation on the Government's proposals for an offshore carbon dioxide licensing regime. The regime will be based on powers given by the Energy Act 2008 and forms part of the transposition into UK law of the EU Directive on the geological storage of CO₂. The consultation runs until 30th December 2009. View the [consultation documents](#) and the [press release](#) that notes the upcoming CSLF meeting to be held in London.

UK to host the Major Economies Forum

28 September 09 - The UK will host the next Major Economies Forum (MEF) for Leaders Representatives in London on 18-19 October. The MEF is not an official part of the UNFCCC negotiations, but provides a more informal discussion space and will cover most of the climate change related issues (including CCS). View the [press release](#).

Miliband emphasises the importance of CCS

28 September 09 - In his speech to the Labour Party Conference, the Secretary of State for Energy and Climate Change, Ed Miliband emphasised the importance of CCS and said: "There is no solution to climate change without a solution for coal." He said that UK energy policy would be built around a "trinity of clean power": nuclear, renewables and clean coal. View the [full story](#).

ScottishPower urges the UK not to fall behind on CCS

30 September 09 - Nick Horler, ScottishPower's Chief Executive, has urged the UK Government not to fall behind in the global CCS race. He said: "With other countries hot on our heels if not potentially about to overtake us, we can't fall back into the pack especially at this time of tight international balance sheets and competing investment priorities - we now need to see the UK Government fully committed to the competition by keeping to tight timescales and making funding available." View the [press release](#).

Infrastructure Planning Commission opens for business

1 October 09 - The Infrastructure Planning Commission (IPC) has opened for business today to advise developers of major new projects (including power stations) in preparation for the planning applications that the IPC will consider from March 2010. The IPC has been set up with the aim of making planning

decisions faster and fairer for large infrastructure projects that are considered to be vital to the UK's future. View the [press release](#).

Liberal Democrats describe Kingsnorth as "a dead duck"

1 October 09 - The Liberal Democrat Shadow Energy and Climate Change Secretary, Simon Hughes, has attacked E.ON's Kingsnorth project in a press release today, after Paul Golby (Chief Executive of E.ON UK) said that he didn't expect a decision on the UK's CCS competition until 2011 and hence if Kingsnorth won construction would be more likely to be completed in 2016 than the original 2014 target. Simon Hughes said: "Kingsnorth II is now a dead duck. This disclosure should put it out of the running for Government funding. If Kingsnorth doesn't withdraw itself from the CCS pilot shortlist, it should be removed." View the [press release](#) and Paul Golby's [comments](#).

International News

EU could miss 2015 target date

25 September 09 - The EU's ambition to see ten to twelve CCS demonstration projects operational by 2015 is being seen as increasingly unlikely, Reuters reports. David Reiner at Cambridge University's Judge Business School said: "The likelihood of the EU reaching its target is vanishingly small. If they achieved five (plants) by 2015 and 10 by 2020 it would probably be a minor miracle." View the [full story](#).

KEPCO to invest \$2.4bn in clean technology

28 September 09 - KEPCO, the South Korean state owned utility company, has said that it will be investing \$2.4 billion up to 2020 in clean technology. KEPCO has chosen eight sectors for investment, including CCS. View the [full story](#).

Business leaders call for 10 US CCS projects

28 September 09 - The Western Business Roundtable, a group of CEOs and senior executives from organisations in the western United States, have called for Congress to approve a bill supporting up to ten large scale CCS demonstration projects. The bill, known as the Carbon Capture and Sequestration Program Amendments Act of 2009, also addresses liability issues and is thought to have bipartisan support. View the [full story](#).

Senators propose incentives for natural gas

28 September 09 - A group of nine senators have sent a letter to Senators Barbara Boxer and John Kerry, calling for incentives to be introduced for use of natural gas. Senators Boxer and Kerry are expected to introduce climate change legislation later this week. The letter recommends that natural gas fired power plants be made eligible for CCS research incentives. View the [full story](#).

Operation begins at Toshiba's pilot plant

29 September 09 - Toshiba has completed construction and begun operating its CCS pilot plant at the Mikawa Power Plant in Omuta, Japan. The pilot is designed to capture 10 tonnes of CO₂ per day from the flue gases of the coal-fired power plant. Toshiba aims to be able to meet emerging needs for CCS systems at power stations by 2015 and hopes to generate net sales of 100 billion yen in 2020 through CCS related business. View the [press release](#).

EPRI joins AEP and Alstom in CCS project

29 September 09 - The Electric Power Research Institute (EPRI) has joined American Electric Power (AEP) and Alstom in a CCS project at AEP's Mountaineer Plant in West Virginia. A 20 MW CCS system has been installed at the plant, where it will capture approximately 100,000 tonnes of CO₂ annually for storage in two saline aquifers located beneath the plant site. The facility will formally begin operation on 30th October. View the [press release](#).

Contract signed for Greencore project

29 September 09 - CH2M HILL has announced that it has signed an Engineering, Procurement and Construction Management contract with Encore Acquisition Company for the Greencore CO₂ pipeline project. The 230 mile pipeline will transport CO₂ from the Lost Cabin Gas Plant in Wyoming to Encore's Bell Creek Field in Montana for enhanced oil recovery. It is estimated that the project will reduce CO₂ emissions from the plant by a million tonnes per year. View the [press release](#).

South African CCS centre launched

30 September 09 - The South African Centre for Carbon Capture and Storage has officially been launched, as part of Carbon Capture and Storage Week that has also included conferences and workshops in Johannesburg. View the [full story](#).

CCSA News

Rumoured set backs to UK CCS programme

Luke Warren, the CCSA's International Policy Executive, commented on a story in the Daily Mail that internal rows at DECC and within the Treasury are affecting the UK's CCS programme. View the [article](#).

Contact Us

The Carbon Capture & Storage Association (CCSA) exists to represent the interests of its members in the business of capture and geological storage of carbon dioxide (known as Carbon Capture and Storage, or CCS) as a means of abating atmospheric emissions of carbon dioxide and potentially, as a means of enhancing the production of fossil hydrocarbons. From its base in London the CCSA brings together specialist companies in manufacturing & processing, power generation, engineering & contracting, oil, gas & minerals as well as a wide range of support services to the energy sector such as law, banking, consultancy and project management.

The Carbon Capture and Storage Association

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To be considered by the Board for Membership please contact:

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Upcoming events

Brussels Carbon Capture and Storage Summit 2009: Getting it right for Copenhagen



Event title: Brussels Carbon Capture and Storage Summit 2009: Getting it right for Copenhagen

Date: 6th October 2009

Venue: Sofitel Europe Brussels Hotel, European District, Brussels

Contact person: James Wilmott / james.wilmott@forum-europe.com
/ +44 (0) 2920 783 028

Event website: <http://www.ccsconference.eu>

The major meeting point prior to Copenhagen for stakeholders involved in CCS is organised by Forum Europe and Bellona Europa. Limited places are available.

CONFIRMED SPEAKERS INCLUDE:

- Andris Piebalgs, Commissioner for Energy, European Commission
- Chris Davies, Member, European Parliament
- Frederic Hauge, President, Bellona Foundation
- Piotr Tulej, Head of Unit, DG Environment, European Commission
- Lena Sandberg-Morch, Senior Officer, State Aid and Competition Department, EFTA
- Lars Stromberg, Vice President R&D, Vattenfall
- Ruth Hampton, Head of International CCS, Department of Energy and Climate Change (DECC)
- Stefano Puppini, Unit K2 - Energy Conversion and Distribution Systems, DG Research, European Commission
- Luc de Marliave, Climate Change Coordinator, Total
- Claude Roulet, Senior Advisor, Schlumberger
- Sanjeev Kumar, ETS Coordinator, WWF
- Petre Petrov, Research Programme Officer, European Commission
- Alain F. Berger, VP European Affairs and Head of the Brussels Office, Alstom
- Scott Brockett, Policy Officer, DG Environment, European Commission
- Jesse Scott, Brussels Programme Leader, E3G

Join more than 200 of your peers for the EU CCS conference prior to Copenhagen. Online registration is available at <http://www.ccsconference.eu> where you will find full registration costs. CCSA members can enjoy the early bird rates right up until the event day saving you €100. After the 25th August 2009 simply use discount code CCSA100 when registering online at <http://www.ccsconference.eu>. Book early to secure a place!

Power Generation Middle East



11-13 October 2009
Abu Dhabi National Exhibition Centre

11 - 13 October 2009, Abu Dhabi National Exhibition Centre

The region's premier exhibition for the power industry

Main areas of interest include:

- Power Generation
- Transmission & Distribution
- Automation & Controls
- Research & Technology

Exhibitor Testimonials

"The show has been really busy... We've met a large number of potential new customers..." N. Selvukumar, Mohamed Abdulrahman Al-Bahar (Caterpillar) [Read More](#)

"We've had plenty of visitors and lots of good business leads - up to 100 serious ones." Sandra Hackmann, Envision [Read More](#)

For more information please view the [website](#)

Experts 2009



13 - 14 October 2009, Berlin, Germany

Modern Power Systems invites you to attend the Second Annual Experts conference which will bring together key authorities to provide answers to these and all the other topical questions. From clarifying the latest European Directives and implementing biomass co-firing to achieving a more efficient power plant, this conference will provide in depth analysis into solving the critical issues facing the industry today.

With CO₂ concerns so dominant in the public and political arena as well as the conventional pollutants of NO_x and SO_x, reducing emissions is an enormous task for power plant operators. Furthermore this responsibility provides colossal challenges which must be overcome.

The advent of stringent European Directives must be adhered with otherwise power plants face the possibility of being shut down. How will the changing regulations affect power plants and what technologies can help meet these challenges?

CCS members receive a 10% discount contact adriangray@vibeevents.com to receive your reference code

For more information please email adriangray@vibeevents.com or go to www.modernpowersystems.com/experts

CCS in the North Sea area



22. October, Copenhagen, Denmark.
(and 23. October Excursion to CO₂ capture pilot plant, EU-project CASTOR and CAESAR).

The Norwegian environmental organisation Zero Emission Resource Organisation (ZERO) invites participants from the North Sea countries to an open seminar to address CCS in Denmark and the North Sea area, as well as the role of CCS in the international climate negotiations.

There are many full scale CO₂ capture and storage projects planned in the North Sea area with storage possibilities both onshore and below the North Sea. The political and public knowledge and debate is very different in the North Sea countries. There is a general need for more information and knowledge about CCS, both among policymakers, organisations and the public. Questions to be addressed through the presentations and discussion at this seminar include:

What CCS technologies are available today?

What is the role of CCS in combating climate change?

How can we get good political framework for phasing out large emission sources?

What is the potential for CO₂ storage in Denmark and the North Sea, and what are the main issues concerning storage safety?

What is the latest status for CCS in the different countries surrounding the North Sea, and is there a need for more cooperation for common North Sea CCS policies and projects?

Are we headed towards a sufficiently good new climate agreement? Will a new agreement ensure implementation of necessary technologies to meet the climate change challenge?

Speakers:

Keith Burnard, Senior Energy Technology Specialist, International Energy Agency (IEA).

Mark Johnston, WWF European Policy Office

Marius Gjerset, ZERO

Børge Rygh Sivertsen, StatoilHydro

Karen Kirk, BGS (British Geological Survey)

Lars Henrik Nielsen, GEUS (Geological Survey of Denmark)

Olav Falk-Pedersen, Specialist Engineer CO₂ Capture, Gassnova (TBK)

Michael Engell-Jensen, Senior Vice President, Carbon & Climate, Mærsk

Bjarne Korshøj, leader Technology Development Centre for Carbon Capture and Storage, Vattenfall

Lars Christian Lilleholt, Energy and Climate speaker Venstre

Ole Hækkerup, Energy and Climate speaker Socialdemokratene (TBK)

Kim Ejlersten, NOAH (Friends of the Earth Denmark)

Ruth Hampton, Head of International CCS, Department of Energy and Climate Change, UK

Neil Crumpton, FoE UK

Hans Axel Haugen, Tel-Tek

Anders Larsen, FoE Norway

Nicole van Klaveren, Rotterdam Climate Initiative

Erik Honing SNM (Stichting Natuur en Milieu)

Tove Maria Ryding, Chairman the 92 Group (TBK)

John Nordbo, WWF Denmark

For further information and to register please visit:
www.zero.no/ccs-seminar

Event Enquiries: Marius Gjerset, marius@zero.no + 47 92 65 60 10

Developing Carbon Capture and Storage on a Commercial Scale: Overcoming the Barriers to Implementation



Developing Carbon Capture and Storage on a Commercial Scale: Overcoming the Barriers to Implementation

23rd October 2009, Eversheds, London

New coal-fired power stations are needed in order to meet the energy gap and ensure a diverse energy mix. With coal-fired power stations being built globally at a rapid pace, making coal clean is an imperative without which climate change goals will not be met. Carbon Capture and Storage has the potential to reduce CO₂ emitted from fossil fuel plants by up to 90%.

With the Government currently consulting on the conditions to be placed on future coal power stations this conference focuses on the commercial viability of the technology and looks at the role of carbon trading in improving the economics of carbon capture projects.

How feasible is it for all coal power stations to operate carbon capture and storage and what are the implications for the industry and for the consumer?

Issues to be discussed include:

- Why we need clean coal and the Government's proposals for CCS demonstration and deployment
- European policy towards carbon capture and storage and the impact of the EU ETS
- The scale of the challenge
- The impact of the carbon markets on the economics of carbon capture and storage
- The implications for investors and for consumers
- Investing in and developing the infrastructure for capturing, transporting and storing carbon

For further information and to register please visit:
<http://www.eventsforce.net/carboncapture>

For CCSA members there is a discount available when registering online. Please enter CCSA into the field marked 'discount code' to obtain the discounted rate of £199 + VAT.

Carbon Capture and Storage - Making it happen



28-29 October 2009, Institution of Mechanical Engineers, London

Book now or view the full programme:
www.imeche.org/events/s1439

Event overview

Carbon Capture and Storage is one of the most exciting opportunities for reducing carbon emissions, securing affordable low-carbon energy supplies and diversity of energy sources. The technology for achieving substantial reductions in carbon emissions exists, but the regulatory and economic frameworks do not allow us to take full advantage of it. This seminar will describe and challenge the current position and provide an essential update on both the legislative and technical barriers to this technology.

Attending this event will help you:

- Understand the policy and regulatory issues surrounding Carbon Capture and Storage (CCS)
- Appreciate the importance of CCS to achieving carbon emission reductions
- Discover the latest technological developments in CCS, both in the UK and internationally
- Identify the options and health and safety issues for transportation and storage
- Learn how CCS can help to achieve the level of carbon emission reductions required by 2050
- Gain a deeper understanding of the financial realities of delivering zero-carbon energy
- Question whether coal really is a 21st-century fuel
- Learn how to make this exciting technology a commercial reality
- Explore options for the transportation and storage of carbon dioxide
- Understand the health and safety issues surrounding the transmission of carbon dioxide

This event is an ideal opportunity for plant owners, operators, investors, financial advisers, insurers and policymakers to gain an understanding of the range of issues involved in developing, owning and operating power/process plants with carbon capture.

Reduced Member Rate for the following supporting organisations: ICE, IChemE, EI, CCSA, OES, OCA, EEMUA, EIC. Day 1: £240 + VAT, Day 2: £240 + VAT, Day 1 & 2: £360 + VAT (full details on event website).

Event Enquiries: Taz Khatun, Events Executive, T: 020 7973 1306 or E: T_Khatun@imeche.org

Carbon Capture and Storage: Science, Technology and Policy

The Centre for Innovation in Carbon Capture and Storage (CICCS) Courses



The University of Nottingham

CICCS introduces: **SHORT COURSES IN CCS**

CICCS
Centre for Innovation in Carbon Capture and Storage (CICCS)
Inspiring Innovation...for a Cleaner Future

10th - 11th November 2009, Jurys Inn, Nottingham, UK

CICCS short courses provide fundamental understanding of carbon capture and storage (CCS) for people with wide ranging background disciplines; including engineering, business, and policy; working in various sectors such as consultancy, government, and industry; with an interest in CCS and its future deployment.

The CICCS short course; Carbon Capture and Storage: Science, Technology and Policy; to take place on the 10th and 11th of November in Nottingham, UK will provide interdisciplinary fundamental training in the topical field of CCS. This short course, recommended as a two day course with the option of attending one day only, covers the science, technology and regulatory aspects, providing an introduction to climate change science and the role of carbon capture and storage in a mitigation portfolio; the role of UK policy in establishing a market for CCS implementation; carbon capture, transport and storage science and technology; and regulation, risk and public acceptance. The course will be of interest to scientists, engineers, technologists, managers, NGO's, consultants and policy makers, working in an energy related field within industry, academia, consultancy or government.

World leading experts speaking on this course include: Bronwen Northmore, *Head of Cleaner Fossil Fuels Policy at the Department of Energy and Climate*, Dr Andy Chadwick, *Head of CO₂ storage Research at the British Geological Survey*, Professor Mercedes Maroto-Valer, *Director of CICCS at the University of Nottingham*, and Dr Ian Havercroft, *Lead Researcher for the University College London Legal Programme*.

For further information and registration please visit the CICCS website on: www.nottingham.ac.uk/ciccs/courses.php, or email mciccs@nottingham.ac.uk. Members of the CCSA are entitled to an extended early bird discount of 10% until the 1st of October. To receive this discount please mention the CCSA during registration.

The 3rd Annual European Carbon Capture & Storage Summit



18-19 November 2009, London

Earlier this year the UK government 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. With many challenges and opportunities facing carbon capture & storage at the moment, City & Financial holds this timely summit, the third in the successful series, to discuss and debate some of these key issues by bringing together a speaker panel of exceptional quality.

Keynote address

Charles Hendry, Shadow Minister for Energy

Among other expert speakers are:

- Stephen Adamson, Commercial Manager CCS, Scottish Power
- Andrew Austin, Senior Associate, Freshfields Bruckhaus Deringer LLP
- John Best, Chief Executive, East of England Energy Group (EEEG)
- Dr Tony Booer, Schlumberger Oilfield
- Paul Bowden, Partner, Freshfields Bruckhaus Deringer LLP
- Simon Brooks, Vice President, European Investment Bank
- Keith Burnard, Senior Energy Technology Specialist, International Energy Agency
- Milton Catelin, Chief Executive, World Coal Institute
- Jeff Chapman, Chief Executive, Carbon Capture and Storage Association
- Jon Gibbins, Senior Lecturer, Imperial College London
- Klaus Hammer, Managing Director - Generation, Eon UK
- Nick Horler, CEO, Scottish Power
- Bronwen Northmore, Head of CCS Policy, Department for Energy and Climate Change
- Jan Panek, Head of Unit, Coal and Oil, European Commission
- Ian Phillips, Director CO₂ Infrastructure, CO₂ Deepstore Ltd
- Dr Nicholas Riley, Head of Science Policy Europe, Coordinator of CO₂, Geonet
- Emily Rochon, CCS Policy Coordinator, Greenpeace
- Stanley Santos, Project Manager Capture and Integrated Systems, IEA Greenhouse Gas R&D Programme
- Ian Temperton, Managing Director, Advisory, Climate Change Capital
- Chris Train, Director of Network Operations, National Grid
- Richard Vernon, Principal-Energy, SLR Consulting

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

CCSA members DISCOUNTS:

20% discount off the standard private sector fee

10% discount off the standard public sector/academic fee

To receive this discount, please quote CCSA and contact Martina Hayter (mhayter@cityandfinancial.com)

Organised by:
City & Financial Conferences
Tel: +44 (0)1483 720707

For more information about this event, please visit
www.cityandfinancial.com/eucc3

Carbon Capture and Storage Forum



The *Carbon Capture and Storage Forum* puts a spotlight on moving from debate to action, looking at how large-scale CCS can become a commercial reality. Discuss the opportunities and implications for your organisation at this interactive forum which is being held on 25th November at Le Méridien Piccadilly, London.

Outstanding speakers include:

Dr Paul Golby, Chief Executive, E.ON UK
Nick Horler, Chief Executive, ScottishPower
Chris Train, Director, Network Operations, National Grid
Bronwen Northmore, Head of CCS Policy, Department of Energy & Climate Change
Pierre Dechamps, Adviser for Energy and Climate Change, Bureau of European Policy Advisers to the President of the European Commission
Ian Phillips, Director - CO2 Infrastructure, CO2 Deepstore
David Porter, Chief Executive, Association of Electricity Producers
Nigel Yaxley, Managing Director, Coallmp
Dr Doug Parr, Chief Scientist and Director of Policy & Solutions, Greenpeace
Dr Samuel Fankhauser, Principal Research Fellow, Grantham Research Institute on Climate Change, London School of Economics & Member of the Committee on Climate Change
Tony Grayling, Head of Climate Change and Sustainable Development, Environment Agency
Richard MacRory, Barrister and Professor of Environmental Law, University College London

Bringing together senior decision-makers from energy companies, plant developers, carbon capture technology and CO₂ storage companies, as well as the regulator, this is a unique opportunity to gain a 360° view of the latest sector developments.

For more details, please contact us:

Telephone: +44 (0) 20 7760 8699
Email: conferences@marketforce.eu.com
Website: www.marketforce.eu.com/ccs

As a member of the CCSA you can enjoy a 10% discount off the standard registration rate. To take advantage of this discount, please use the code 'CCSA' when registering online or over the phone.

Middle East Electricity 2010



Tuesday 9 - Thursday 11 February 2010

Dubai International Exhibition Centre

Exhibition space at Middle East Electricity 2009 sold out well in advance of the show.

Secure your place at Middle East Electricity 2010 today

Contact us on +97143365161 or email meelectricity@irme.com

"This is our second time at Middle East Electricity - there's been good visitor traffic, and we've met visitors from across the GCC and North Africa. We're very satisfied with the show, and will return in 2010." Harris Juhn, Marketing Manager, Hyosung Corporation.