



**Carbon Capture & Storage Association**

Issue No. 10  
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# CCSA Weekly Newsletter

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Paul Golby on the future of utilities

Maersk prepares to enter CO2 transportation market

South Africa aims for CCS demonstration plant by 2020

European CCS funding cut

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UK dithering sets back 'clean' coal, says CCSA

## 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.ccsassociation.org](http://www.ccsassociation.org)

## UK News

### Paul Golby on the future of utilities

18 March 2009 - Paul Golby, CEO of E.ON UK spoke at the Adam Smith Institute on the 18th March, calling for more government support for CCS. [Read here & Press Release Below](#)

### E.ON starts work on identifying CO<sub>2</sub> pipeline routes

17 March 09 - E.ON has announced that survey work has begun to identify potential CO<sub>2</sub> pipeline routes for its Kingsnorth project, that would be used to carry captured CO<sub>2</sub> from the power plant to the North Sea for storage in gas fields. [Read more](#)

### ScottishPower keeps up campaign in the UK CCS Competition

18 March 09 - Speaking yesterday at the Future of Utilities conference, Chief Executive of ScottishPower Nick Horler spoke about ScottishPower's entry into the UK CCS competition at its Longannet power plant in Fife. He stated that the companies Spanish parent, Iberdrola, are committed to making the UK "a centre of excellence for carbon capture and storage development if it emerges the victor" and that the economic benefits of CCS are very significant, estimating that the global CCS market could be worth more than \$100 billion per year from now until 2030. [Read more](#)

## CCSA Press Release

17<sup>th</sup> March 2009

### The time for talk is over on CCS

The Carbon Capture and Storage Association (CCSA) has welcomed Dr Paul Golby's (Chief Executive of E.ON UK) call for increased Government funding for CCS, which was delivered to the Future of Utilities conference at the Adam Smith Institute, London. Amongst other things, the speech called on the Government to urgently provide financial support to develop CCS, particularly given the disadvantage to early developers of the technology due to increased running costs. Urging the Government to action, Jeff Chapman, Chief Executive of the CCSA commented:

*"The time for talk is over. We urgently need a strong commitment from Government on funding for CCS otherwise we risk losing out in the race against climate change." "The Government risks further delays by another round of consultations with industry and we urgently need decisive action and policy to support the development of Carbon Capture and Storage (CCS)." "If we're serious about developing CCS we need to be serious about the funding this will require. It's time to move from debate to decision around how we are going to develop this vital technology."*

## European News

### Policy

### European CCS funding cut

13 March 09 - A further €100 million has been cut from the European Commission's proposal to fund CCS projects. This reduces the total funding for CCS as part of the economic recovery package to €1.05 billion. The latest version of the proposal would mean that the UK, Germany, the Netherlands, Poland and Spain would all receive €180 million each for a CCS project, Italy would receive €100 million and France would receive €50 million. [Read more.](#)

### Spain to benefit from EU funding for CCS research

16 March 09 - The Spanish region of El Bierzo, home to the research facility Cluden, is gearing up to spearhead the development of a CCS plant by 2015, following the EU proposal to allocate €200 million to this project as part of the economic recovery package - which is still undergoing negotiations. If the EU funding is approved, Spanish utility Endesa will further develop its plans to build a 500 MW CCS plant, using Ciudens CCS technology. The plant would be built in several stages, beginning with a 50 MW plant by mid-2010 which would include two boiler types, the ability to burn all types of coal whilst capturing CO<sub>2</sub>, as well as testing pipeline infrastructure and underground storage. The Ciuden facility have developed several [YouTube](#) videos of the planned test facility. [Read more](#)

### Projects

### RWE and Linde to build pilot CO<sub>2</sub> scrubbing facility

17 March 09 - RWE Power together with Linde and BASF have been granted permission by the city of Cologne in Germany, to build a pilot facility to test CO<sub>2</sub> flue gas scrubbing. RWE Power have allocated approximate €80 million for the entire project (erection, operation and demonstration) which will capture about 300 kilograms of CO<sub>2</sub> per hour and should begin operating in the summer of this year. [Read more](#)

## International News

### Policy

#### More CCS funding in US Budget

13 March 09 - The new 2009 budget bill (recently signed by President Obama) includes:

- \$876 million for the Fossil Energy Research and Development (FE R&D) program.
- Within the FE R&D program, \$404 million is included for Coal Research and Development Programs at the National Energy Technology Laboratory (NETL). This program consists of six coal R&D programs on power systems, CCS, hydrogen and clean fuels.
- Also within the FE R&D program is \$288 million for the Clean Coal Power Initiative (CCPI). This brings the total amount for this program which focuses on CCS to \$1.5 billion.

[Read More](#)

#### German study shows potential for reducing coal plant emissions

18 March 09 - Germany's coal importers association have today released a study showing that carbon dioxide emissions from hard coal-fired power stations could be reduced by 81% by 2050 using a combination of efficiency upgrades and CCS. [Read More](#)

### Projects

#### Maersk prepares to enter CO2 transportation market

13 March 09 - Maersk Tankers, a subsidiary of Danish A.P. Moller - Maersk announced at the International Scientific Congress on Climate Change in Copenhagen last week that they are looking into the business case for CO2 transportation by ship - for either offshore storage or EOR. Using existing experience in transporting liquefied petrochemical and natural gasses, Maersk has estimated that more than half of Denmark's annual CO2 emissions could be transported by ship for storage in the North Sea. [Read more](#)

#### South Africa aims for CCS demonstration plant by 2020

13 March 09 - The South African National Energy Research Institute (the government body responsible for energy R&D) has said that it hopes to have a CCS demonstration plant operational by 2020. [Read more](#)

#### Kern County in California looks to build worlds first hydrogen energy CCS plant

16 March 09 - Hydrogen Energy have proposed a 250 MW hydrogen energy plant in Kern County, California - generating enough electricity to power 150,000 homes every year whilst storing carbon dioxide. In addition to approval from the California Energy Commission, it is hoped that some of the \$3.2 billion for CCS that was announced in the US stimulus package, could be used to fund this project. If approval is granted, the project could begin construction in 2011 and fully operational by 2014 - creating around 1,500 construction jobs in the process. [Read More](#)

#### University of Colorado looks to make CCS more affordable

13 March 2009 - Researchers at the University of Colorado have found a way to make CCS more affordable by using an ionic fluid instead of water to dissolve the amines that are commonly used to capture carbon dioxide. [Read More](#)

### For Interest

#### Queensland education resource

Videos, animations and other resources on CCS from Education Queensland - a group providing educational resources for schools. [Available here.](#)

## CCSA News

### UK dithering sets back 'clean' coal, says CCSA

12 March 09 - Jeff Chapman is quoted in a recent article in Point Carbon on delays to decisions on CCS. [Read More](#)

## Reports

### Swedish report calls for massive investment in CCS

16 March 09 - The Swedish Academy of Engineering Sciences (IVA) have published 3 reports as part of the Energy Crossroads project which presents "data for decision-makers to show what practical measures can be taken to reduce emissions of greenhouse gases". Included in one of the three reports is a recommendation for a massive investment in CCS. [Read here](#)

### Environmental Audit Committee Pre-Budget Report 2008: Green fiscal policy in a recession

Report from the EAC announcing that green taxes will have to rise to pay for the Government's £535 million package for low carbon measures that was announced in the Pre-Budget Report in November. The EAC calls on Alistair Darling to announce more green projects in the upcoming budget - and adds that investment in low carbon industries could lead to job creation. [Read PDF](#)

## In Parliament

### UK Westminster Hall Debate on UK Energy (Coal)

Dave Anderson MP debate on UK energy and coal, with many statements of support for CCS and the importance of using the 300 years worth of coal reserves that the UK has. [Read here](#)

## Upcoming events

### Towards a UK CCS roadmap - Regulatory and financing experience in the USA

Friday, 20 March, 9.00am - 4.30pm  
Institute of Directors, 116 Pall Mall

Efforts to accelerate the deployment of CCS in the UK are at a critical juncture, with an urgent need for clarity over the forward policy landscape. This timely conference will consider how the pursuit of a clear UK CCS roadmap can draw from the varied approaches to regulation and financing in place in the USA.

**Green Alliance** and the **CCSA** are delighted to welcome a delegation of experienced energy regulators and corporate leaders from the USA. They will share perspectives on state-level climate regulation, its impact on CCS deployment, and the influence it will have on forthcoming federal US climate legislation.

The conference will also include discussion of the recent consensus proposals made by the USCAP coalition of NGOs and corporations. UK stakeholders will then consider how available options could be assembled into a coherent UK CCS roadmap.

Chair: Stephen Hale (Director, Green Alliance)

Speakers:

- Richard Cowart (Director, Regulatory Assistance Project)
- Nancy Ryan (Chief of Staff, California Public Utilities Commission)
- Meg Gottstein (Principal, Regulatory Assistance Project formerly Administrative Law Judge, California Public Utilities Commission)
- Michael Peevey (President, California Public Utilities Commission)
- Gene Rodrigues (Director of Energy Efficiency, Southern California Edison Inc)
- Lewis Gillies (Chief Executive, Hydrogen Energy International Limited)
- David Hawkins (Director, Climate Programs, Natural Resources Defense Council)
- Steve Corneli (Vice President, Regulatory and Government Affairs, NRG Energy Inc)
- Mike Farley (Director of Technology Policy Liaison, Doosan Babcock)
- Sam Lumb (Climate Change Policy Manager, Environment Agency)
- Keith Allott (Head of Climate Change, WWF-UK)
- Jeff Chapman (Chief Executive, CCSA)

For more information please contact [Stephanie Squire](#).

## CDMC 5th Clean Energy Forum - Coal Gasification 2009



1-3 April 2009, Tianjin, China

CCSA MEMBERS SAVE \$200  
Quote 'CCSA'

CDMC 5th Clean Energy Forum-Coal Gasification 2009 aims to trigger global efforts in facilitating clean coal reliability, commercial viability and economics and engender customer confidence. The world industry pioneers and practitioners will bring you the latest developments and performances of coal gasification, UCG, IGCC and CCS. Also you will reach the first hand information of clean coal related business opportunities all over the world, particularly in China, India, Indonesia, South Korea and Central Asia etc.

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## The Carbon Reduction Commitment: The Implications for Business

30 April 2009, London, UK

MEMBERS OF THE CCSA SAVE 10%  
Quote 'CCSA10'

The Environmental Industries Commission, in association with the Department of Energy and Climate Change and the Environment Agency, presents the essential event for understanding the implications the Carbon Reduction Commitment on your business.

Keynote Speaker: Joan Ruddock MP, Minister for the Carbon Reduction Commitment

For more information:  
Visit: [www.eic-uk.co.uk/crc2009.cfm](http://www.eic-uk.co.uk/crc2009.cfm)

Or contact Rob Hill at EIC:  
Tel: 0207 935 1683  
Email: [rob.hill@eic-uk.co.uk](mailto:rob.hill@eic-uk.co.uk)

## ACI's Carbon Capture and Storage Conference



13th & 14th of May 2009, Berlin, Germany

ACI's Carbon Capture and Storage Conference will address the key challenges and issues facing the commercialisation of carbon capture and storage technology. Presentations will be delivered by industry experts and leading case studies. The main aim of this event is to showcase the most advanced technologies and the latest funding options to really drive CCS forward. The event will be held in Berlin which will include a site visit to Vattenfall's Swarze Pumpe site.

Currently Confirmed Speakers Include:

- Tom Kerr, International Energy Association
- Dr Michael Stephenson, British Geological Survey
- Giles Dickson, ALSTOM
- Brendan Beck, IEA Greenhouse Gas R&D Programme
- Dr Stephen Brown, Yorkshire Forward

For more information please contact Justyna Korfanty:  
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[Website](#)

## Petroleum Economist Forum on Carbon Capture & Storage



9-10 June 2009, London, UK (Note the change of date)

AS A MEMBER OF CCSA YOU CAN SAVE £245.

Join the Petroleum Economist Forum on Carbon Capture & Storage and explore the complex challenges behind the realities of implementing CCS technologies:

- Is CCS the key to large scale de-carbonisation?
- What policies are needed to drive progress?
- Testing, testing, testing - justifying the demonstration projects
- Developing commercial opportunities for CCS
- The PR challenge - How can CCS win over public opinion?

For more information:  
Visit: [www.petroleum-economist.com/ccs](http://www.petroleum-economist.com/ccs)  
Call: +44 (0) 20 7779 8840  
Email: [events@petroleum-economist.com](mailto:events@petroleum-economist.com)

## Introduction to the Geological Storage of Carbon Dioxide (CO2)

A one day course from Senergy Training.

Learn about the principles, practice and security of CO2 storage in the UK context from Senergy's experts.

An acclaimed course in 2008 with 100% of participants rating the course good or excellent.

Dates for 2009 are:

- Thursday 19<sup>th</sup> March (Central London),
- Thursday 26<sup>th</sup> March (nr Aberdeen),
- Thursday 1<sup>st</sup> October (nr Aberdeen)
- Thursday 8<sup>th</sup> October (Central London).
- Fee: £600 plus VAT

The course is designed for environmental and energy industry executives, managers, financiers, technical staff, government advisors, civil servants, politicians, journalists and any who wish to know more about the subject of carbon storage and its relevance to the UK and EU in achieving CO2 emissions reduction targets. There is no assumption of previous knowledge in any technical discipline.

"Thought provoking - which any good course should be" 2008 course participant.

For details of course content and tutors download brochure [here](#).

Book online at [www.senergyltd.com/training](http://www.senergyltd.com/training)

Enquiries to [training@senergyltd.com](mailto:training@senergyltd.com) or phone Sarah McPhee on +44 (0) 1315231000

Locally tailored courses also being presented in Australia (Perth) in March and Canada (Calgary and Edmonton) in May.

## SMi 2nd annual conference - Gasification



17-18 June, London, UK

For more information:

Call: +44 (0) 20 7827 6156

Visit: [www.smi-online.co.uk/09gasification6.asp](http://www.smi-online.co.uk/09gasification6.asp)

## Third Annual New Build Europe 2009 conference



Modern Power Systems invites you to join us for our **Third Annual New Build Europe 2009 conference**, where we will explore the role of new fossil generation in the fuel mix, providing an update on key projects under construction and planned, and the issues surrounding them.

Other themes to be addressed at the 2009 conference will be the new "dash for gas" and advanced combined cycle technologies, clean coal and carbon capture readiness, repowering schemes, and new build fossil generation projects and prospects in central and eastern Europe

Our site visit will take us to the world's largest gas turbine, at Irsching, organised by E.ON in association with Siemens, where we will learn about their experiences building this path-breaking facility and plans for construction of the world's most efficient combined cycle plant at the site.

For more information please email Adrian Gray at [adriangray@vibevents.com](mailto:adriangray@vibevents.com) or visit [www.modernpowersystems.com/newbuild2009](http://www.modernpowersystems.com/newbuild2009)

## 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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