



**Carbon Capture & Storage Association**

Issue No. 12  
Week 1 April 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.ccsassociation.org](http://www.ccsassociation.org)

## UK News

Stern attacks Kingsnorth

## European News

- EU may auction EUAs early to fund CCS
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- Australia identifies 10 areas for offshore CO<sub>2</sub> storage
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## Reports

- Report highlights low level of UK investment in clean technology
- Report says Scotland should build CCS demonstration plant

## UK News

### Stern attacks Kingsnorth

31 March 09 - Lord Stern has said that plans for a new coal-fired power station at Kingsnorth should be halted. "We shouldn't go ahead because coal is so polluting and we need very strong examples of how to move forward with our electricity supply in a way that doesn't use coal... without carbon capture and storage," he said. "There are other ways we can handle the interim," he added. "The fastest way is to put up a gas-fired power station. That is emitting, but much less so than coal. We've got to build up solar and wind." View the [full story](#).

## European News

### EU may auction EUAs early to fund CCS

26 March 09 - A European Commission spokeswoman has said that the auction of allowances from the third phase of the ETS may take place before 2013, perhaps as early as 2011. She added, "It is not excluded that (part of) the revenues from these allowances will be used for CCS projects in accordance with the relevant provision in article 10a of the revised ETS directive." View the [full story](#).

### E.ON, ScottishPower and Statkraft join SOLVit

30 March 09 - E.ON, ScottishPower and Statkraft have all joined SOLVit, an R&D programme on carbon capture technology led by Aker Clean Carbon. The programme aims to create improved and more cost-effective processes and solvents to capture CO<sub>2</sub>. View the [press release](#).

### Air Products to play a key role at Schwarze Pumpe

31 March 09 - Air has announced a new agreement with Vattenfall in which the company will install its proprietary CO<sub>2</sub> capture, purification and compression system at Vattenfall's 30 MW oxyfuel pilot plant at Schwarze Pumpe in Germany. View the [press release](#).

### European Parliament committee agrees to CCS funding

31 March 09 - The European Parliament's energy committee has agreed to use €5 billion to fund CCS and other energy projects as part of the European Economic Recovery Plan. The committee added that any funds that are not spent by September 2010 should be reallocated to energy efficiency and renewable energy projects. Negotiations will now begin with the Czech Council presidency, before a final vote is held by the European Parliament in its 4 - 7 May session. View the [full story](#).

### German ministers agree CCS guidelines

1 April 09 - The German environment and economics ministries have agreed on draft legislation providing a regulatory and technical framework for CCS. One of the most hotly debated parts of the legislation is the 30 year post-closure period before handover of responsibility to the state. It is hoped that the bill will be approved by parliament before the summer. View the [full story](#).

### UCLOS II project to proceed

1 April 09 - As part of the Ultra-Low CO<sub>2</sub> Steelmaking project, two pilot plants to demonstrate the use of Top Gas Recycling and CCS in steelmaking are to be built. One will be in France and the other in Germany. Approximately €800 million is being invested in the projects. View the [full story](#).

## International News

### Canadian CCS funding awarded

26 March 09 - Canada has selected eight CCS projects to receive funding under its ecoENERGY Technology Initiative. The companies leading the projects are ARC Resources, Enhance Energy, Spectra Energy Transmission, TransAlta, TransCanada, Husk Energy Inc., Enbridge and EPCOR. The projects are expected to begin in late summer this year. View the Natural Resources Canada [website](#).

### Australia identifies 10 areas for offshore CO<sub>2</sub> storage

27 March 09 - Australia has identified ten offshore areas in which (as of today) companies can apply for the rights to explore and develop CO<sub>2</sub> storage sites. The areas are in the Gippsland basin, the Otway basin, the Petrel sub-basin, the Torquay sub-basin and the Vlaming sub-basin. View the [full story](#).

### NRDC opposes proposals for coal-fired generation without CCS

27 March 09 - Baard Energy has pulled out of the US Department of Energy's loan guarantee program as a result of challenges made to environmental permits that were issued to its project by the Ohio Environmental Protection Agency. The National Resources Defence Council has said that it believes that under the Clean Air Act, Baard must commit to using CCS technology in its Ohio River Clean Fuels Project and should agree to emissions limits. NRDC has said that it will challenge any coal-to-liquids or coal generation proposals that do not include CCS. View the [full story](#).

### Alstom and Dow announce CCS pilot plant

30 March 09 - Alstom and the Dow Chemical Company have announced a CCS pilot plant in West Virginia. The project is

expected to capture 1800 tonnes of CO<sub>2</sub> per year using the companies' advanced amine technology. View the [full story](#).

## South Africa launches CCS Centre

30 March 09 - South Africa has launched its CCS centre to drive research and progress in CCS. The South African National Energy Research Institute (SANERI) has secured \$2.65 million for the centre over the next five years. A government official said that South Africa hopes to build its first CCS demonstration plant by 2020. View the [full story](#).

## WESTCARB CO<sub>2</sub> storage proposal approved

30 March 09 - The Arizona Department of Environmental Quality and the US Environmental Protection Agency have issued permits for the West Coast Regional Carbon Sequestration Partnership (WESTCARB) to inject 2000 tonnes of CO<sub>2</sub> from a coal-fired plant into a saline aquifer in Navajo County, Arizona. View the [full story](#).

## Draft US climate change legislation

1 April 09 - The US House of Representatives has released a discussion draft of new energy and climate change legislation known as The American Clean Energy and Security Act of 2009. The draft legislation, written by Rep. Henry Waxman and Rep. Edward Markey, contains significant proposals relating to CCS. This includes demand for a strategy to address legal and regulatory barriers to CCS deployment, regulations for storage sites, a CCS demonstration and early deployment program and emissions performance standards for new coal-fired power plants. View a [summary](#) or the [full text](#) of the draft legislation.

The response from [Greenpeace](#) said that the following short coming needed to be addressed: "The coal industry receives untold billions dollar in handouts for the false promise of carbon capture and sequestration, with American ratepayers and taxpayers footing the bill."

## Reports

### Report highlights low level of UK investment in clean technology

30 March 09 - A report released today by the New Economics Foundation says that among rich nations, the UK has invested the least in clean technology as part of its fiscal stimulus. The analysis estimates that just 0.0083% of GDP has been spent on new measures that benefit the environment. Another report, commissioned by the German government and written by Lord Stern, has also been published and calls for massive investment to be made by the G20 nations in areas including large-scale CCS demonstration projects. View the [full story](#).

### Report says Scotland should build CCS demonstration plant

31 March 09 - A report from the Institute of Mechanical Engineers has said that the Scottish Government should work

closely with Westminster to build a CCS demonstration project on the east coast of Scotland. View the [full story](#).

## New CO<sub>2</sub> storage study suggests dissolution in water is major trapping mechanism

2 April 09 - A study published today in the journal *Nature* has found dissolution in water to be the major trapping mechanism for CO<sub>2</sub> stored in natural gas fields (rather than mineral fixation). Dr Gilfillan, from the Scottish Centre for Carbon Storage (at the University of Edinburgh), who led the research said: "The study shows that naturally stored carbon dioxide has been safely stored for millions of years, which means that these sort of storage timescales should be achievable for the deliberate sequestration of the gas." View the [full story](#) and the [letter in Nature](#).



## Masters in Carbon Capture & Storage

The Scottish Centre for Carbon Storage is proud to announce the world's first dedicated Masters Programme in Carbon Capture & Storage.

The CCS Masters provides high-level interdisciplinary skills and training in the entire value chain of carbon capture and storage, including combustion, transport, geoscience and legal aspects.

This Programme is designed for science graduates in Engineering or geoscience related subjects seeking an advanced academic qualification as a launch pad for careers in business, industry and government in the field of low carbon energy production.

[www.erp.ac.uk/sccs](http://www.erp.ac.uk/sccs)

## CCSA News

### New members - GDF Suez and Zurich

2 April 09 - The CCSA is pleased to welcome GDF Suez and Zurich as new members. View the [GDF Suez website](#) and the [Zurich website](#).

## Upcoming events

### European CCS Implementation Workshop



**Carbon Capture &  
Storage Association**

29 April 2009, 2-6pm followed by a networking reception

Venue: EU Parliament, József Antall building, room 4Q1 (entrance via Altiero Spinelli building on Rue Wiertz 60), Brussels

The office of Chris Davies MEP together with the Carbon Capture and Storage Association have great pleasure in inviting you to a workshop on implementing CCS across Europe. The aim of this workshop is a consultation exercise with stakeholders on the Commission's proposals for delivering the CCS Flagship Programme of 10-12 CCS projects across Europe by 2015.

Identifying appropriate financial mechanisms to enable the Flagship Programme to be rolled out as early as possible is a vital part of deploying CCS in Europe. To this end the EU agreed, as part of the ETS Directive approved in December 2008, to allocate 300 million allowances from the New Entrant Reserve of the EU ETS (Phase III) to support the Flagship Programme. This is a welcome step and discussions now turn to the detail of how to ensure these allowances are used to support the birth of CCS in Europe - an important technology in the portfolio of options for reaching the EU's target of a 20% reduction in greenhouse gas emissions by 2020.

The workshop panel will include representation from DG TREN, DG ENV and DG RES, as well as Graeme Sweeney, Chairman of ZEP and will be jointly moderated by Chris Davies MEP and Jeff Chapman, CCSA.

It is essential that all stakeholders are represented and participate in the debate; to register please email [judith.shapiro@ccsassociation.org](mailto:judith.shapiro@ccsassociation.org) giving your name, title, affiliation and phone number no later than Friday 24th April 2009.

Reception kindly sponsored by Shell



### 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.

For more information please contact Shirley Zhang:

T: +86-21-68407631

F: +86-21-68407633

Email: [shirleyzh@chinadecisionmakers.com](mailto:shirleyzh@chinadecisionmakers.com)

### 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 Schwarze 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:

T: +44 (0) 207 981 2503

Email: [jkorfanty@acius.net](mailto:jkorfanty@acius.net)

Website:

[www.acius.net/wiki.aspx/Conferences/Upcoming?view=overview&id=121](http://www.acius.net/wiki.aspx/Conferences/Upcoming?view=overview&id=121)

## 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)

## 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@vibeevents.com](mailto:adriangray@vibeevents.com) or visit [www.modernpowersystems.com/newbuild2009](http://www.modernpowersystems.com/newbuild2009)

## 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)

## IQPC Carbon Capture Storage and Transport Summit

Carbon Capture, Storage and Transport Summit 2009

June 17 - 18, 2009

[www.iqpc.com/uk/ccs](http://www.iqpc.com/uk/ccs)

17-18 June 2009, Le Meridien, Picadilly, London UK

For more information visit: [www.iqpc.com/uk/ccs](http://www.iqpc.com/uk/ccs)

## South African Carbon Capture & Storage Conference



South African

## carbon capture & storage conference

29-30 September 2009, Sandton Sun, Johannesburg, South Africa

South Africa is a developing country with a coal based energy economy and has committed internationally to stabilising emissions by 2025. CCS provides one option to stabilise greenhouse gas emissions and the South African government has declared CCS a national research priority.

The conference is designed as an entry level introduction to CCS. It is therefore aimed at executives, geologists, engineers, scientists, policy and regulation developers, researchers, students, NGO's, analysts, risk managers and all interested and affected stakeholders.

The conference aims to develop a basic understanding of the various technical, economic, policy and regulatory aspects of CCS. In addition, the results and experiences of a number of existing CCS facilities will be presented.

The conference will include presentations by world renowned experts in the field of CCS, including:

- **Stefan Bachu** (Alberta Energy & Utilities Board, Canada)
- **John Gale** (IEA GHG R&D Programme)
- **John Bradshaw** (Greenhouse Gas Storage Solutions)
- **Nick Otter** (Global CCS Institute)

representation from **CO2CRC**, **Schlumberger**, **UK Department of Energy and Climate Change** and the **TNO**

The conference will be followed by a number of workshops and short training courses and will include the gala launch of the newly formed South African Centre for Carbon Capture and Storage.

For more information please email  
[ccsconference@africanearthevents.co.za](mailto:ccsconference@africanearthevents.co.za)

## 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 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.

## New events pages on our website

The Association's website has now been updated to include both an forthcoming events page and a past events page. The past events page will include presentations given at CCSA events, such as those from the recent NZEC policy makers study tour and the CCSA and Green Alliance event 'Towards a UK CCS roadmap'.

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

## 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

Suites 142-145, 4th Floor  
Grosvenor Gardens House  
35-37 Grosvenor Gardens  
London  
SW1W 0BS  
Tel: +44 (0) 20 7821 0528  
Fax: +44 (0) 20 7828 0310  
[info@ccsassociation.org](mailto:info@ccsassociation.org)

For more information about the CCSA please visit our website: [www.ccsassociation.org](http://www.ccsassociation.org)

To be considered by the Board for Membership please contact:

Pamela Rudolph

[pamela.rudolph@ccsassociation.org](mailto:pamela.rudolph@ccsassociation.org)