



**Carbon Capture & Storage Association**

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# 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)

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## Reports

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## UK News

### Calls for Government to support the nuclear industry

25 May 09 - EDF UK's chief executive, Vincent de Rivaz, has called for financial support from the Government for the nuclear industry. He said that a 'level' playing field' should be created, allowing nuclear power to compete with other low-carbon electricity sources such as wind and CCS. View the [full story](#).

## European News

### Norway to contribute €140 million to CCS

28 May 09 - Norway has said that it will contribute at least €140 million towards CCS projects in the European Union. The money will come from its contribution to the European Economic Area. Norway's Prime Minister, Jens Stoltenberg, described CCS as "essential" to addressing climate change. View the [full story](#).

### UK and Norway commission CO<sub>2</sub> storage study

28 May 09 - A new study, into the role of the North Sea in storing CO<sub>2</sub> from Europe, has been jointly commissioned by the UK and Norway. The study will examine how quickly the storage sites will be needed and what countries will need to do preparation for their use. It will assess each country's storage potential as well as likely CO<sub>2</sub> flows (including cross-border flows), network issues and how the offshore storage business might develop. Lord Hunt, Minister of State for Energy and Climate Change said: "Today's agreement reaffirms the UK's leadership in tackling the emissions from fossil fuel power generation... This study will help assist the governments in Europe to work together to store carbon dioxide safely under the North Sea and to plan the implementation of CCS." View the [press release](#).

## International News

### Committee approves American Clean Energy and Security Act

21 May 09 - The Energy and Commerce Committee has approved the American Clean Energy and Security Act. Chairman Waxman said: "This bill, when enacted into law this year, will break our dependence on foreign oil, make our nation the world leader in clean energy jobs and technology, and cut global warming pollution." The legislation aims to cut emissions by 17% (compared to 2005 levels) by 2020, 42% by

2030 and 83% by 2050. It promotes energy efficiency, clean energy sources (such as CCS) and green jobs. View the [press release](#).

### Air Products and EPRI to collaborate on oxygen production technology

21 May 09 - Air Products and the ElectricPower Research Institute (EPRI) have signed an agreement that will support the development of Air Product's ion transport membrane (ITM) oxygen production technology. The technology, which is part of an on-going project with the US Department of Energy, could significantly increase efficiency and reduce costs of advanced coal-fired power plants, both with and without CCS. EPRI's involvement will advance the ITM program through focus on power-industry design cases and features as well as specific tests. View the [press release](#).

### Pennsylvanian lawmakers consider views on CCS bill

21 May 09 - The House Environmental Resources and Energy Committee of Pennsylvania has been hearing view on the proposed House Bill 80, which sets out a regulatory framework for CCS in the state and would require 3% of electricity in 2015 to come from coal-fired power stations with limited emissions. The acting secretary of Pennsylvania's Department of Conservation and Natural resources told the Committee that establishing a CO<sub>2</sub> infrastructure network in the state would significantly help to address initial high costs to projects. He also stated that economics and not technology represents a barrier to CCS. A coalition of environmental groups have expressed concern that the bill would allow new coal-fired power stations to be built that might never be fully retrofitted with CCS. View the [full story](#).

### PCOR Partnership begins core sampling

22 May 09 - The Plain CO<sub>2</sub> Reduction (PCOR) Partnership has begun collecting core samples from a new characterisation well, as an important step towards proving the viability of CO<sub>2</sub> storage in brine formations. The project is part of the US Department of Energy's Regional Sequestration Partnerships program and tests are being carried out near Spectra Energy's Fort Nelson natural gas processing plant in British Columbia, Canada. The project will be one of the largest CCS projects in the world, with plans to inject over two million tonnes of CO<sub>2</sub> per year into a saline aquifer. View the [press release](#).

### US and Italy sign CCS agreement

23 May 09 - The US and Italy have signed an agreement to cooperate on CCS. Italy's Minister for Economic Development said that the agreement covers knowledge exchange, technology development, coordination of joint projects and identification of CO<sub>2</sub> storage sites. The announcement was made the day before a G8 summit of energy ministers in Rome. View the [full story](#).

## CCS project threatened by uncertainty over power line

23 May 09 - Aviva Corporation's plans for a coal-fired power plant with CCS in Australia are said to be in doubt after a State Government decision to abandon plans for a major new power line between Perth and Geraldton. The project is considered to be a frontrunner to receive funding from the Australian Government's \$2 billion CCS program, but the company has warned that without the power line the project would no longer be viable. View the [full story](#).

## G8 meeting notes importance of CCS

25 May 09 - The meeting of G8 Energy Ministers in Rome has concluded. In a joint statement by G8 Energy Ministers, the European Energy Commissioner and the Energy Ministers of the G5 countries, Egypt, the Republic of Korea and The Kingdom of Saudi Arabia the importance of CCS was recognised. The statement gave support to large-scale CCS demonstration projects and called for "the active involvement of the private sector in this endeavour". It also outlined expectations that the CSLF Ministerial Meeting in October "might represent a timely opportunity to assess the state of the art and to identify financing mechanisms". A joint statement between G8 Energy Ministers and the European Energy Commissioner also reiterated commitment to the launch of 20 large-scale CCS demonstration projects globally by 2010, with a view to seeing broad deployment of CCS beginning by 2020. View the [statements](#).

## China's Huaneng to launch second CCS pilot

25 May 09 - Huaneng, the Chinese power company, plans to launch a second CCS pilot project in Shanghai at the end of the year. The project aims to capture 10,000 tonnes of CO<sub>2</sub> and sell it to local industry. Jiang Minhua, director general of Huaneng's science and technology department described CCS as "very, very expensive" and said: "Carbon capture costs around 200 yuan (\$29.31) per tonne using current technology. And actually handling it, processing it so it can be used industrially, will cost another 150 yuan (\$21.98) per tonne." View the [full story](#).

## Japanese Minister rejects new coal-fired power station

26 May 09 - The Japanese Environment Minister, Tetsuo Saito, has recommended rejecting a proposal by Nippon Kasei Chemical Co. for a new coal-fired power station on the basis that it may hamper Japan's efforts to meet its Kyoto targets for emissions reductions. In a statement he said: "Cutting-edge technology including carbon capture and storage and coal-gasification power generators must be employed for new plant projects." The Minister of Economy, Trade and Industry will make the final decision on the project. View the [full story](#).

## Duke Energy to focus on nuclear

26 May 09 - James Rogers, chief executive of Duke Energy, has said that the company will be focusing on nuclear generation instead of coal. Referring to two coal-fired power plants planned by the company, he said: "And I would go a step further and probably say that these two coal plants we build might well be the last two we build until we have a clear picture on CCS." View the [full story](#).

## Bill to support CCS in Minnesota introduced

26 May 09 - A bill designed to support CCS projects has been introduced in Minnesota. The legislation would make new coal-fired baseload power stations located in states engaged in CCS projects exempt from Minnesota Energy Law. The proposal reflects the fact that much of Minnesota's energy demand is met by power generated in neighbouring states such as North Dakota. View the [full story](#).

## National Carbon Capture Center announced

27 May 09 - The US Department of Energy has announced a new National Carbon Capture Center (NCCC), which aims to develop and test CO<sub>2</sub> capture technologies for use at coal-fired power stations. The centre will be run by Southern Company Services Inc. and will be established at the Power Systems Development Facility in Wilsonville, Alabama. The centre will allow technology to be tested at a large enough scale to give meaningful results under real operating conditions. Other participants in the project include American Electric Power, Luminant, the Electric Power Research Institute, Arch Coal, Peabody Energy, and Rio Tinto. View the [press release](#).

## Reports

### WWF report suggests that UK CCS demonstrations could increase emissions

22 May 09 - A new report from WWF, *Carbon Choices - options for demonstrating carbon capture and storage on the UK power sector*, concludes that Government risks raising UK CO<sub>2</sub> emissions if consent is given to new coal-fired power stations with small-scale CCS demonstration projects. "Building a new power station on the scale of Kingsnorth with CCS technology covering only a small portion of its output, will raise the country's carbon emissions by millions of tonnes," says Keith Allott, Head of Climate Change at WWF-UK. "A much smarter way of demonstrating the technology is to use an existing station that would be running anyway - this would actually reduce our emissions, and would also avoid locking us in to a new generation of polluting coal stations if it turns out that CCS too difficult or expensive." WWF supports using an Emissions Performance Standard (EPS) to ensure that demonstration projects ultimately lead to full-scale CCS. View the [report](#).

## Upcoming events

### Safe and Reliable Life Extension of Topside Equipment Offshore

- The Continued Safe and Reliable Operation of Offshore Oil and Gas Topside Equipment Beyond its Original Design Life - designed for 25 years and still operating after 30!

16 June 2009, Aberdeen Exhibition and Conference Centre, Aberdeen

Many offshore platforms, drilling, work over rigs and other facilities are past their original design life. But new technology and field enhancement has meant that they are required to continue operating. Changing properties of the fluids produced or additional wells require different processing and equipment in order to maintain production. The topside equipment needs to continue to operate and so often requires extension, adaptation or preventative maintenance as well as updating, upgrading etc to bring it in line with current legislation and operating and safety practices. In addition there have been a number of mature offshore facilities that have been acquired by independent operators, with different priorities.

These topics will bring leading suppliers, service and engineering contractors and offshore oil & gas operators together to share their knowledge and experience to extend the life of existing facilities in a safe, reliable and cost effective way.

For further information or to register:

[www.imeche.org/events/S1438](http://www.imeche.org/events/S1438)

### 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



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

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

### 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)

### COAL-GEN Europe conference and exhibition



1st - 4th September 2009, Expo Silesia, Katowice, Poland

Turning Black Technology Green

With the current boom in demand for coal, providing Europe with reliable and affordable power, great investment is being made in its production.

Carbon dioxide management from coal is becoming increasingly important. Carbon capture and storage (CCS) and clean coal technology developments are critical to help reduce CO2 emissions significantly while also allowing coal to meet the world's pressing energy needs.

COAL-GEN Europe is the premier pan-European conference and exhibition dedicated to the resurging coal-based power generation industry and the revolutionary technology that will help Europe meet its environmental challenges.

Conference Keynote Speakers:

- Jacek Piekacz, Chairman, The Polish Clean Coal Technologies Platform
- Dr. Thorsten Diercks, Secretary General, European Association for Coal & Lignite (Euracoal)
- A representative of Poland's Ministry of Economy, Energy Department
- A representative of the Polish Chamber of Mining & Commerce

CCSA members are entitled to a 20% discount

For full information or to register, please visit [www.coal-gen-europe.com](http://www.coal-gen-europe.com) or email [attendingcge@pennwell.com](mailto:attendingcge@pennwell.com). Alternatively please contact Neil Walker on +44 (0) 1992 656 600

## Offshore Europe Oil and Gas Conference and Exhibition



**8th-11th Sept 2009  
AEEC Aberdeen**

8 - 11 September 2009, Aberdeen, UK

The SPE Offshore Europe Conference & Exhibition attracts a global audience of engineers, technical specialists, industry leaders and experts, to share ideas, debate the issues of the moment and to create common agendas for the future of the upstream industry. SPE Offshore Europe is where the E&P community meets to find the solutions required to keep up with an accelerating technology race, and understand the demands of a changing industry committed to ensuring security of supply in an increasingly complex world.

For more information please visit [www.offshore-europe.co.uk](http://www.offshore-europe.co.uk)

## The 3rd annual ACI Carbon Capture and Sequestration Summit



14 - 15 September 2009, Washington, United States

The 3rd annual ACI Carbon Capture and Sequestration Summit provides a senior-level forum in which the unexplored nature of the interface between power generators and the oil industry, and their disparate CCS business models and approaches to risk will be addressed. The goal of the event is to encourage those focused on capture, and those focused on storage, to come together and develop a greater understanding of current and future needs, and an integrated approach for commercializing CCS.

Key topic areas to be explored include:

- The changing market conditions for CCS technologies
- The current and evolving Federal and State legislative/regulatory environment
  - The impact of expected national cap and trade legislation
  - Regulatory structure for carbon storage
  - Regulatory framework for Enhanced Oil Recovery (EOR) as a driver for commercial CCS projects
- Funding, project economics and business models
- Accelerating pipeline infrastructure development
- Risk assessment, monitoring and long term liability for storage
- Using CCS to realize the economic benefits of Enhanced Oil Recovery (CO<sub>2</sub>-EOR)
- Public acceptance for CCS

CCSA members are entitled to a \$200 discount - quote 'TBD'

For more information, please visit:

[www.americanconference.com/CCS](http://www.americanconference.com/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 Research Council)
- John Gale (IEA GHG R&D Programme)
- John Bradshaw (Greenhouse Gas Storage Solutions)
- Nick Otter (Global CCS Institute) representation from CO<sub>2</sub>CRC, 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)

## 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 CO<sub>2</sub> concerns so dominant in the public and political arena as well as the conventional pollutants of NO<sub>x</sub> and SO<sub>x</sub>, 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](mailto:adriangray@vibeevents.com) to receive your reference code

For more information please email [adriangray@vibeevents.com](mailto:adriangray@vibeevents.com) or go to [www.modernpowersystems.com/experts](http://www.modernpowersystems.com/experts)

## 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@iirme.com](mailto:meelectricity@iirme.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.

## 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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[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)



## 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)