



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

UK News

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UK News

North Sea CO₂ storage study unveiled

1 May 09 - A study into CO₂ storage capacity under the North Sea by the Scottish Centre for Carbon Storage, the Scottish Government and industry partners has been released today. The study, entitled '*Opportunities for CO₂ Storage Around Scotland*', finds that there is a capacity for storing at least 4,600 to 46,000 million tonnes of CO₂ in saline aquifers and depleted oil and gas fields around Scotland. The Scottish First Minister, Alex Salmond, said: "The conclusions of this study underline just how vast Scotland's potential in CCS is - we have the capacity to capture safely and store emissions from industrial coal-fired plants for the next 200 years... And the benefits go far beyond our environment. Electricity generated in Scottish power stations which are fitted with carbon capture technology will be comparable in price to energy generation using other low-carbon technology. The development of CCS in Scotland, including power stations and storage networks, has the potential to support 10,000 jobs." View the [press release](#).

North West funding for low carbon technologies

1 May 09 - The Northwest Regional Development Agency has announced a package of funding that includes £2 million for The Carbon Challenge Fund, which aims to enable the demonstration of low carbon technologies in the region (including CCS). View the [press release](#).

Britain to cooperate with China on CCS

3 May 09 - Ed Miliband, the Energy and Climate Change Secretary, has said that Britain will share the benefits of its investment in CCS with developing countries such as China. The statement was made during his visit to Beijing to discuss climate change targets ahead of UNFCCC talks in Copenhagen later this year. View the [full story](#).

E.ON and EPSRC announce CCS research funding

7 May 09 - E.ON and the Engineering and Physical Sciences Research Council (EPSRC) have announced £6.9 million for four university-led CCS research projects. Under the E.ON/EPSC partnership, a University of Nottingham led consortium will investigate CO₂ capture, a Newcastle University led group will investigate CO₂ transport in pipelines and Leeds University will lead a project on oxyfuel combustion. EPSRC is also funding a consortium led by the University of Edinburgh, which will investigate improving the economics of large-scale CCS. View the [press release](#).

European News

EU plans to fund a CCS plant in China by 2015

5 May 09 - The European Commission is developing plans to fund a large-scale CCS plant in China. A report following work conducted by the NZEC project will be released in June as is expected to call for the project to be built by 2015. Member States will be asked to contribute to building costs and private companies will also be given incentives to invest. An official said: "We are not looking at the clean development mechanism (CDM) (to attract private investment), but trying to set up a sectoral crediting mechanism." View the [full story](#).

MEPs approve economic recovery plan

6 May 09 - MEPs have voted in favour of investing €5 billion in energy projects, broadband internet infrastructure and rural development as part of the EU's economic recovery plan. The package includes €1.05 billion for CCS projects. The recovery plan lists thirteen CCS projects in seven Member States that can apply for the funding. If funds for CCS projects, gas and electricity infrastructure and offshore wind energy are not committed by the end of 2010 the Commission will declare its intention to propose using them for renewables and energy efficiency measures instead. View the [press release](#).

International News

Australian EPA decision on Gorgon project

29 April 09 - Western Australia's Environmental Protection Agency (EPA) has decided that the proposal to revise and expand the Gorgon liquefied natural gas development on Barrow Island could meet the EPA's objectives. The project is a joint venture between Chevron, Shell and ExxonMobil. The report states that: "A fundamental justification by the proponent for using Barrow Island was the need for access to a suitable aquifer beneath the island for long term carbon dioxide storage... If injection and long term storage of the carbon dioxide produced with the gas that is processed at the Gorgon plant is not achieved (for whatever reason, including the introduction of carbon markets) then the decision to permit gas processing on Barrow Island nature reserve should be reconsidered." View the [press release](#).

West Virginia issues first CO₂ storage permit

5 May 09 - The Department of Environmental Protection in West Virginia has issued the state's first ever CO₂ sequestration permit. The permit is for Appalachian Power Co.'s Mountaineer Plant at New Haven, where the utility and its parent company American Electric Power are building a \$70 million CCS pilot project. The permit allows capture and storage of up to 165,000 tonnes of CO₂ per year (over four to five years) from the plant. View the [full story](#).

Tax credits for CCS projects in Texas

5 May 09 - The Texas House had approved \$100 million in tax credits for the first three companies to build coal-fired power plants with CCS in the state. The projects would have to be at least 200 MW and capture 70% of their emissions. View the [full story](#).

CCS deal expected between Saskatchewan and Montana

5 May 09 - An agreement between Saskatchewan and Montana to work together on a \$250 million CCS project is expected to be signed this week during a visit to the province by Montana Governor Brian Schweitzer. The project would involve capturing CO₂ from a coal-fired power station in Saskatchewan and transporting it (in a pipeline) to Montana where it would be stored in a geological formation. View the [full story](#).

CCS permits delayed by regulations

6 May 09 - The issuing of exploration permits for offshore CO₂ storage sites in Australia is being delayed by regulations that have yet to be finalised. The Australian government named ten potential areas for storage of CO₂ in March and insists that progress on regulation is being made, but that further stakeholder consultation is required. View the [full story](#).

PwC survey shows 83% of utilities are considering CCS projects

7 May 09 - PricewaterhouseCoopers' 2009 Utilities Global Survey reveals the extent to which the utilities industry views technology innovation as key to the future, with 83% of respondents from utility companies in Europe reporting that they are evaluating CCS projects. Manfred Wiegand, global utilities leader at PwC said: "It is obvious that it is impossible to invest fast enough in alternative sources of energy to displace the significant contribution that hydrocarbons represent. The development of carbon capture and storage (CCS) in coal burning plant will perhaps be the most critical single development in the power sector in the coming decade. Like renewables, that will require very strong economic incentives and price signals." The survey also highlights the importance of greater clarity from governments on climate change policies and concern that the economic recession will slow down action to address climate change. View the [press release](#).

Reports

UKERC Energy 2050 report

30 April 09 - The UK Energy Research Centre has released a major new report on meeting 80% emissions reductions in the UK by 2050 whilst delivering reliable energy to consumers. The

report finds that the UK's electricity sector must be decarbonised by 2050 through deployment of CCS, nuclear and renewable generation. Achieving this would unlock great potential for electricity to be increasingly used in transport and buildings. None of the scenarios foresee penetration of renewables increasing fast enough to meet current UK targets. The report concluded that new and improved low-carbon technologies would need a stable carbon price of £200/tonne of CO₂ by 2050, with this price rising to £300/tonne of CO₂ if action is delayed or more ambitious targets are put in place. View the [press release](#).

Friends of the Earth calls for an end to spending public money on CCS

5 May 09 - Friends of the Earth has released a report entitled *Public Money for fossil fuels in the EU and in three EU member states* and called for an end to spending billions of Euros of taxpayers' money on the fossil fuel industry. The NGO urged MEPs to vote against funding CCS and gas projects as part of the European economic recovery package, claiming that €6 billion has already been given to fossil fuel companies over the past five years. It says that CCS "has yet to prove viable for addressing rising emissions and diverts resources from the development of renewable energy". Paul De Clerck, Friends of the Earth International corporate campaigner, said: "Oil and gas companies should not receive taxpayers' money to use for unproven technology such as CCS while they continue to make billions of Euros of profits each year and invest their own capital in dirty projects like oil sands that produce three times more emissions than conventional oil. These projects will not stimulate growth in the economy and are not the solutions we need to the climate crisis or the economic crisis." View the [press release](#).

Report highlights potential storage sites in Pennsylvania

5 May 09 - A report by the Department of Conservation and Natural Resources has highlighted four potential sites for geological storage of CO₂ in Pennsylvania. The report is part of a series of studies that DCNR is required (under ACT 129) to produce on CO₂ storage. The next study will be a detailed evaluation of risks. View the [full story](#).

CCSA News

European CCS Implementation Workshop

29 April 09 - The office of Chris Davies MEP and the CCSA held a workshop at the European Parliament on the Commission's proposals for delivering the CCS Flagship Programme of ten to twelve CCS projects across Europe by 2015. Presentations are now available online in the *Past Events* section of the [CCSA website](#) and [Bellona](#) has also covered the event.

Upcoming events

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

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Website:

www.acius.net/wiki.aspx/Conferences/Upcoming?view=overview&id=121

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 or visit www.modernpowersystems.com/newbuild2009

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

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

IQPC Carbon Capture Storage and Transport Summit

Carbon Capture, Storage and Transport Summit 2009

June 17 - 18, 2009

www.iqpc.com/uk/ccs

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

For more information visit: www.iqpc.com/uk/ccs

COAL-GEN Europe conference and exhibition

Conference & Exhibition
1-4 September 2009

Expo Silesia, Katowice, Poland



**COAL-GEN
EUROPE**

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 off conference delegate fees

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

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 Enhance 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 (CO2-EOR)
- Public acceptance for CCS

For more information, please visit:

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 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

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

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.



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

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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