



**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

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UK News

UK launches Copenhagen manifesto

26 June 09 - The UK Government has published *The Road to Copenhagen* - a manifesto detailing the UK's hope for a new global climate change agreement in Copenhagen later this year. UK Climate and Energy Secretary, Ed Miliband said: "This is make or break time for our climate and our future. With less than six months to go before crunch negotiations in Copenhagen, it's clear that there is no plan B for the planet. The world's got no option but to work together to get a global climate deal that's ambitious, effective and fair." In his speech to launch the manifesto, when commenting on reducing emissions in developing countries, the Prime Minister said: "...And perhaps most vitally of all, given the likelihood of continued fossil fuel use, we need to see Carbon Capture and Storage being demonstrated in developing economies as well as developed ones." On CCS, the manifesto notes that "In October the UK will be co-hosting with Norway the Carbon Sequestration Leadership Forum (CSLF) where we aim to scale up international action on Carbon Capture and Storage demonstration and build the momentum for an ambitious outcome at Copenhagen." View the [press release](#), the [Prime Minister's speech](#) and the [manifesto](#).

Energy Bill proposed to fund CCS demonstration projects

29 June 09 - As part of the legislative programme for the forthcoming session of Parliament set out by the government today, a new Energy Bill has been proposed in order to introduce a funding mechanism to support up to four CCS demonstration projects in the UK. The current consultation, 'A framework for the development of clean coal', includes proposals for the detailed design of the mechanism. View the Building Britain's Future [website](#), which contains details of the legislative programme.

Imperial College centre for CCS launched

30 June 09 - Researchers at Imperial College were pleased to launch the Imperial College Centre for Carbon Capture and Storage (IC4S) on Tuesday 23rd June to an industry-based audience. The college-wide virtual Centre, a part of the Energy Futures Laboratory and supported by the Grantham Institute for Climate Change, will act as a focal point for work at Imperial on all aspects of CCS. It will draw upon the international reputation and multidisciplinary nature of Imperial's programmes to partner with industry, government and other organisations in a holistic way to help address the challenges of delivering CCS. The launch event included a keynote speech from Neil Hirst, Director for Energy Technology and R&D at the International Energy Agency. Further details can be found at www.imperial.ac.uk/ccs or by contacting the IC4S Director, [Jon Gibbins](#).

European News

Alstom signs contract for the Technology Centre Mongstad

18 June 09 - Alstom has signed an engineering, procurement and construction (EPC) contract for a chilled ammonia (carbonate) CO₂ capture plant at the European CO₂ Technology Centre Mongstad (TCM) in Norway. The contract has a value of approximately €65 million. The TCM plans to test two different technologies to capture CO₂ from two different flue gas sources. An EPC contract for an amine capture plant was signed with Aker Clean Carbon earlier this year. View the [press release](#).

Germany postpones CCS law

24 June 09 - Germany's ruling politicians have postponed decisions on proposed CCS legislation until after the general elections in September. The move follows much disagreement about the proposed law, including safety concerns and whether it should apply only to demonstration projects or enable a more comprehensive regulatory framework for wider deployment of CCS. View the [full story](#).

Siemens and TNO sign cooperation agreement

24 June 09 - Siemens and the Netherlands Organisation for Applied Scientific Research (TNO) have sign a strategic cooperation agreement, with the aim of further advancing amino-acid salt-based carbon capture technology. The partnership aims to accelerate bringing the technology to market and see a full-scale demonstration plant by 2014. View the [press release](#).

EU to fund CCS demonstration project in China

25 June 09 - The European Commission has announced plans to allocate up to €50 million for the construction and operation of a CCS demonstration project in China, as part of the EU-China Near Zero Emissions Coal Plant project. The money comes from a total of €60 million that has been earmarked for cooperation with emerging economies on clean coal technologies and CCS. View the [press release](#).

International News

IFP and ENEL sign MOU for Italian CCS pilot

22 June 09 - IFP and ENEL have signed a memorandum of understanding to build a CCS pilot at a coal-fired power station in Brindisi in Italy. The pilot unit, to be built by ENEL, will test IFP's post-combustion capture technology which was originally developed as part of the European Castor project. View the [full story](#).

GreenGen CCS project begins construction

26 June 09 - Construction of the GreenGen CCS project has begun. The new coal-fired power station in Tianjin (150km from Beijing) will be China's first commercial scale CCS project. The first phase, at a size of 250 MWe, is expected to begin operation in 2011. A further two phases will expand the project to 650 MW by 2016. Captured CO₂ will be used for Enhanced Oil Recovery. View the [full story](#).

EPA support for American Clean Energy and Security Act

23 June 09 - The Environmental Protection Agency (EPA) has expressed support for the proposed American Clean Energy and Security Act saying that should accelerate the deployment of clean energy technology and help to create new jobs. In its analysis of the legislation, the EPA concluded that the United States could see 25 GW of new and retrofitted CCS coal-fired power stations by 2025. View the [full story](#).

New Jersey joins Regional Carbon Sequestration Partnership

24 June 09 - New Jersey has become the 43rd state to join the US Department of Energy's Regional Carbon Sequestration Partnership program, which aims to test and deploy CCS technologies. New Jersey joins Indiana, Kentucky, Maryland, Michigan, New York, Ohio, Pennsylvania, and West Virginia as a partner and participant in the Midwest Regional Carbon Sequestration Partnership. View the [press release](#).

Companies withdraw from FutureGen

24 June 09 - American Electric Power (AEP) and Southern Company have announced that they are withdrawing from the FutureGen project in order to focus investment on their own CCS projects. A spokesman for the FutureGen Alliance said that the two companies had been key members, but that "there is still a strong core membership in the alliance who are committed to moving the project forward." US Energy Secretary Steven Chu later said that the project will need more partners, but that he is convinced that it should continue. View the [full story](#) and a further [story](#).

Regional Partnership begins injecting CO₂

25 June 09 - The Midwest Geological Sequestration Consortium, part of the US Department of Energy's Regional Carbon Sequestration Partnership program, has begun injecting CO₂ into a mature oil field in Kentucky. The test is designed to up to 8000 tonnes of CO₂ over six to eight months, with the aim of assessing the regions CO₂ storage capacity and the feasibility for enhanced oil recovery. View the [press release](#).

Major Economies Forum to consider 50% target for emissions reductions by 2050

25 June 09 - The Major Economies Forum is expected to consider a target of halving global greenhouse gas emissions by 2050 at a summit in Italy next month. A draft document that puts forward the proposal also suggests establishing a global partnership with the aim of double public investment in low-carbon technology by 2015. The partnership would also aim to remove barriers and create incentives for technologies including CCS. View the [full story](#).

House of Representatives passes climate change bill

27 June 09 - The US House of Representatives has passed the American Clean Energy and Security Act by a narrow margin of 219 votes to 212. The bill aims to reduce emissions by 17% by 2020 and promote energy efficiency, clean energy sources (including CCS) and green jobs. View the [full story](#).

New Zealand joins the CSLF

29 June 09 - New Zealand has joined the Carbon Sequestration Leadership Forum (CSLF), becoming the 23rd member of the group. CSLF is a voluntary climate initiative focusing on the development of CCS technologies. The other members of the Forum include: Australia, Brazil, Canada, China, Colombia, Denmark, European Commission, France, Germany, Greece, India, Italy, Japan, Mexico, Netherlands, Norway, Russia, Saudi Arabia, South Africa, South Korea, United Kingdom, and the United States. View the [press release](#).

US DOE awards \$408 million to two CCS projects

1 July 09 - The US Department of Energy (DOE) has announced that projects by Hydrogen Energy and Basin Electric Power Cooperative will receive up to \$408 million in funding from the American Recovery and Reinvestment Act. Hydrogen Energy has been awarded \$308 million for its IGCC plant in Kern County, California, which will capture 90% of its CO₂ emissions. The captured CO₂ will be used for enhanced oil recovery and stored. Basin Electric's post-combustion project, at their Antelope Valley Station near Beulah, will receive \$100 million. The selection of the two projects is part of the DOE's Clean Coal Power Initiative. View the [US DOE press release](#) and the [Hydrogen Energy press release](#).

Reports

MIT report on retrofitting existing power stations

19 June 09 - The MIT Energy Initiative (MITEI) has released a report on retrofitting existing coal-fired power stations with CCS. Professor Moniz, director of MITEI said: "There is no credible pathway toward prudent greenhouse gas stabilization targets without CO₂ emissions reduction from existing coal power plants. We urgently need technology options for these plants and policies that incentivize implementation." The report makes several recommendations, including that \$1 billion be spent per year by the US for the next decade on R&D in this area. It also stresses the need for commitments from the US and China to reduce emissions from existing coal-fired power plants, as well as the need for commercial scale CCS demonstration projects. View the [press release](#).

Business Roundtable study

25 June 09 - Business Roundtable, an association of CEOs from leading US companies, has released an economic modelling study on removing barriers to technology in order to deliver as much as twice the emissions reductions at around half the cost of emissions-limiting legislation. The study identifies CCS as one of six critical 'technology pathways' to achieving their proposed strategy. View the [report](#).

Low carbon future report

29 June 09 - The Royal Society has published a report on a discussion meeting, entitled '*Towards a low carbon future*', which calls for a new vision for UK energy generation based on phasing out the use of fossil fuels. The report says that construction of full-scale CCS demonstration projects in the UK should begin now and suggests that the government should approve the building of new coal-fired power stations in the condition that operating permits will be withdrawn if the plant fails to capture 90% of its CO₂ emissions by 2020. Beyond 2050, the report suggests that the use of both nuclear fission and fossil-fuels with CCS should be replaced by new technologies. View the [report](#).

Committee publishes report on Scotland's energy future

30 June 09 - The Scottish Parliament's Economy, Energy and Tourism Committee have released their report '*Determining and delivering on Scotland's energy future*'. The report expresses support for the proposed CCS project by ScottishPower at Longannet and calls for the UK CCS competition to be accelerated as far as possible. It says that the Scottish Government "should take all steps to support Scotland's case for winning the UK competition". View the [report](#).

CCSA News

CCSA Manifesto launched at AGM

25 June 09 - The CCSA held its AGM and annual parliamentary reception on a beautiful day at the House of Lords. The event was kindly hosted by Lord Jenkin of Roding and speakers included Lord Hunt of Kings Heath (Minister of State for the Department of Energy and Climate Change), Gardiner Hill (Chairman of the CCSA) and Jeff Chapman (Chief Executive). The Association launched its new manifesto '*Carbon capture and storage - building a low carbon economy*' and briefing leaflet at the event. Both are available to download on our website and if you would like hard copies please email [Stephanie Squire](mailto:Stephanie.Squire).

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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Upcoming events

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

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

Offshore Europe Oil and Gas Conference and Exhibition



**8th-11th Sept 2009
AECC 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

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

CCSA members are entitled to a \$200 discount - quote 'TBD'
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 or to register, please visit

www.ccsconference.co.za

or 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.