



Carbon Capture & Storage Association

Issue No. 18
Week 3 May 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

European News

Fortum and Metso announce joint oxyfuel R&D project

11 May 09 - Fortum and Metso have announced that they will be collaborating on a project to develop oxyfuel combustion technology. The project will last three years and is partly funded by Tekes, the Finnish funding agency for technology and innovation. Comprehensive testing will be carried out in 2010 and during the research Metso's 4 MW test plant at Tampere in Finland will be modified for oxyfuel combustion. View the [full story](#).

International News

Saskatchewan and Montana sign CCS MOU

7 May 09 - Premier Wall of Saskatchewan and Governor Schweitzer of Montana have signed a Memorandum of Understanding, agreeing to work together on CCS. The partnership aims to achieve four goals:

- Construct a CO₂ capture plant at an existing coal-fired power station in Saskatchewan to test a range of post-combustion capture technologies
- Construct a CO₂ storage facility in Montana including injection infrastructure with options for EOR
- Construct CO₂ pipeline infrastructure between the plant and storage facility
- Develop a North American training facility to meet the needs of regulators and the growing CCS industry

The project is estimate to cost \$270 million (Canadian dollars) and construction of the plant could begin in September this year, to be operational by the summer of 2011. View the [press release](#).

US DOE requests \$180m for CCS research

8 May 09 - President Obama's 2010 Budget proposal includes \$180 million for the Office of Fossil Energy's Carbon Sequestration program. The funding will support site selection and characterisation, regulatory permits, community outreach and completion of site operations plans for tests of large-scale CO₂ storage in geological formations. In addition it will be used to fund large-scale injections, infrastructure development and research into CO₂ capture technologies. The Regional carbon Sequestration Partnerships are described as essential to achieving these objectives. The Office of Fossil Energy will also be participating in the Carbon Sequestration Leadership Forum and will be supporting the Department of Energy's Innovation Hub for Carbon Capture and Storage. View the [press release](#).

Alstom releases data from successful carbon capture demonstration project

11 May 09 - Preliminary data has been released by Alstom Power on a carbon capture demonstration project in Wisconsin in partnership with Electric Power Research Institute. The data shows that the carbon capture demonstration project is successfully capturing 88-90% of CO₂ emissions, and achieving more than 99% purity levels. At the same time, the project has been operating 24/7 for more than 4,600 hours. The data will be used to inform a new carbon capture demonstration project to be brought on line later this year in New Haven, West Virginia. View the [full story](#).

\$2 billion for CCS announced in Australian Budget

12 May 09 - The Australian Government has announced \$2 billion of funding for industrial-scale CCS projects as part of the Clean Energy Initiative in the 2009-10 Budget. The projects will be part of a CCS Flagships program, which aims to create 1000MW of low emission fossil fuel generation (across a range of capture technologies and storage geologies) and may include a CO₂ storage hub. The total available funding for the Flagships program is \$2.425 billion over 9 years. The Australian Government considers CCS and solar to be strategic technology priorities. View the [press release](#).

Japan-US efforts accelerated on low carbon technology developments

12 May 09 - The Japanese National Institute of Advanced Industrial Science and Technology (AIST) has concluded MOUs with 5 research organisations of the US Department of Energy and the National Institute of Standards and Technology (NIST) of the US Department of Commerce on joint research and researcher exchange programs. One of the 5 MOUs is a collaboration with Lawrence Berkeley National Laboratory (LBNL) in the fields of bio-fuels, nano-materials for energy and CCS. View the [full story](#).

EPCOR and Siemens sign agreement on IGCC CCS project

12 May 09 - Siemens has signed an agreement to provide power generation technology for EPCOR's Genesee IGCC CCS project. EPCOR is currently undertaking FEED studies into the feasibility of the project, which is also being evaluated to qualify for funding as part of Alberta's \$2 billion program of support for CCS projects. View the [full story](#).

RWE and Essent enter into sustainability agreement

12 May 09 - RWE and Essent have signed a sustainability agreement for investments into power generation in the Netherlands. The agreement and related Development Plan reaffirm RWE's intended investment in the Netherlands until 2013, which includes investing in a CCS ready biomass/coal-fired power station in Eemshaven. View the [full story](#).

Reports

Study published on cost of cleaning up Canada's oil sands

12 May 09 - The Canadian Energy Research Institute (CERI) has published a study on the challenges of reducing greenhouse gas emissions from the oil sands to below those of conventional oil. The study predicts that oil prices would need to reach US\$105 per barrel to pay for the cost of integrating new green technologies, such as widespread adoption of CCS for plants using natural gas as a power source, or using gasification or nuclear. CCS is considered the cheapest option, adding an extra US\$2.25 to produce 1 barrel of green bitumen. View the [full story](#).

CCSA News

Jeff Chapman interviewed in the Guardian

Jeff Chapman, Chief Executive of the CCSA, featured in an article entitled [British businesses seek to cash in on carbon capture](#) in the Guardian newspaper this week. Several members of the CCSA also made comments.



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

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

For more information please contact Justyna Korfanty:

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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



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@vibevents.com to receive your reference code

For more information please email adriangray@vibevents.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@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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