



Carbon Capture & Storage Association

Issue No. 19
Week 4 May 2009

CCSA Weekly Newsletter

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www.ccsassociation.org

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UK News

UCL wins grant for CCS legal research

21 May 09 - University College London's Carbon Capture Legal Programme has received a grant of £675,000 from The Crown Estate, RPS Group, Rio Tinto, Schlumberger, Shell and a large Japanese general trading company. The Programme researches legal frameworks surrounding CCS. View the [full story](#).

European News

Commission calls for proposals to gain EEPR funding

18 May 09 - The European Commission has launched a call for proposals for projects to receive funding the recently agreed European Energy Programme for Recovery (EEPR). The EEPR includes €1.05 billion for CCS projects. Project promoters have until 15 July 2009 to submit their proposals. The envisaged Community contribution to the UK for CCS under this package is €180 million, with Kingsnorth, Longannet, Tilbury and Hatfield all named as eligible projects. View the [press release](#).

Poland launches energy strategy

18 May 09 - The Polish Government has launched a draft energy strategy entitled "Energy Policy for Poland until 2030". The strategy outlines Polish ambitions for CCS, which includes hosting two large-scale demonstration projects funded by the European Commission. A pilot CCS project is currently being developed in Belchatow and will receive €180 million in funding announced as part of the European economic recovery package. View the [full story](#).

EU joins GCCSI

20 May 09 - Energy Commissioner Andris Piebalgs met Australian Ministers today to discuss joint initiatives on climate change, clean energy and security of supply, and to sign a Memorandum of Understanding committing the EU as a founding member of the GCCSI. "The UN climate conference on climate change to be held in Copenhagen in December will be essential to reach a global agreement to save the planet. Australia and the EU share the same concerns about climate change and aim at similar solutions. I believe we need to join forces in Copenhagen to be successful in this endeavour," he commented following the meeting. View the [press release](#).

International News

Senate Committee hearing on CCS bill

14 May 09 - The US Senate Committee on Energy & Natural Resources held a hearing on a bipartisan bill that would establish a Department of Energy program to demonstrate CCS, with up to ten commercial-scale projects, as well as a regulatory framework for CCS. The Chairman of the Committee, Senator Bingaman said: "Based on the input of industrial, environmental, NGOs and other organizations, it is clear to me that there is a real need for liability treatments and adequate project financing for early-mover projects. The creation of an indemnity program for these large-scale early-mover projects is an important, necessary step to building confidence for project developers, as well as the public." View the [press release](#).

Steven Chu announces \$2.4 billion in CCS funding

15 May 09 - The US Secretary of Energy, Steven Chu, has announced that \$2.4 billion from the American Recovery and Reinvestment Act will be used to accelerate the commercial deployment of CCS. The US Department of Energy is publishing Notices of Intent to issue this funding, which will allocate \$800 million to the Clean Coal Power Initiative, \$1.52 billion to large-scale industrial CCS projects, \$50 million to characterise a minimum of 10 geological formations and \$20 million for geological sequestration training and research. Steven Chu said: "To prevent the worst effects of climate change, we must accelerate our efforts to capture and store carbon in a safe and cost-effective way. This funding will both create jobs now and help position the United States to lead the world in CCS technologies, which will be in increasing demand in the years ahead." View the [press release](#).

CCS and nuclear included in UNFCCC negotiating text

15 May 09 - CCS and nuclear generation have both been included in negotiating text on the Clean Development Mechanism, published by the UNFCCC. The text is intended to guide UNFCCC talks in Copenhagen later this year. View the [full story](#) and the [negotiating text](#).

19 May 09 - The UNFCCC has also released the negotiating text prepared by the Chair of the Ad Hoc Working Group on Long-Term Cooperative Action under the Convention. View the [negotiating text](#).

AEP awarded West Virginia's first storage permit

17 May 09 - American Electric Power (AEP) had been awarded West Virginia's first permit for CO₂ storage. The 20 MW project at the Mountaineer plant in Mason County will begin in

September. Up to 100,000 tonnes of CO₂ will be captured each year and stored in two geological formations: the Rose Run sandstone and the Copper Ridge sandstone. Results from the project are intended to inform a planned commercial-scale project in Oklahoma. The permit, which took the Department of Environmental Protection in West Virginia more than a year to write, includes monitoring requirements, but does not address liability issues. View the [full story](#).

Carson power plant abandoned

17 May 09 - The Carson power plant CCS project in California has been abandoned. Lack of a suitable storage site for the capture CO₂ and opposition from local environmentalists were cited as reasons behind the decision. View the [full story](#).

Markup begins on Waxman-Markey Bill

18 May 09 - The markup process has begun on the American Clean Energy and Security Act (also known as the Waxman-Markey Bill). During the process, which Democrats hope to conclude on Friday, amendments to the bill are considered before a vote takes place to enable its passage. Republicans are expected to strongly oppose the bill, with reports suggesting that they may introduce a list of over 400 amendments. The bill aims to reduce US greenhouse gas emissions by 17% by 2020 and introduces a cap-and-trade system. It contains several provisions for CCS including establishing a programme for demonstration and early deployment of CCS technologies. View the [press release](#) and a [further story](#).

Canada announces details of C\$1 billion clean energy fund

20 May 09 - Canada has announced further details of its C\$1 billion clean energy fund. The funding includes C\$650 million for large-scale CCS demonstration projects, with the rest of the money designated to smaller renewable and alternative energy projects and research into clean energy technologies. The money is part of the two year C\$40 billion economic stimulus package, which was announced in the Canadian Budget. View the [full story](#).

Small-scale CO₂ storage test completed

20 May 09 - The Midwest Regional Carbon Sequestration Partnership has completed a preliminary geological characterisation and sequestration test at FirstEnergy's R.E. Burger Plant in Ohio. The results from formations in the Appalachian Basin indicated that porosity and void space were lower than expected. The work is said to have demonstrated the importance of extensive drilling, formation evaluation and testing to characterise and identify suitable sites for CO₂ storage. Other important lessons were learnt in the following areas: site selection, design of robust formation imaging, evaluation and testing program, formation simulation, well completion and communications. View the [press release](#).

Mulgrave Capture Project launched

21 May 09 - The CO₂CRC/HRL Mulgrave Capture Project in Melbourne, Australia has begun capturing CO₂. The project is Australia's first pre-combustion carbon capture project and consists of three CO₂ capture rigs at HRL's gasifier research facility. During the project, researchers will assess solvent, membrane and adsorbent technologies with the aim of reducing costs of capturing CO₂ as well as technical risk. "Projects such as this can also help demonstrate that CCS is not only possible but practical... It's an exciting step up from lab research and will allow CO₂CRC researchers from the University of Melbourne and Monash University to undertake applied research in an industrial environment," said Barry Hooper, Chief Technologist of the CO₂CRC. View the [full story](#).

Southern Company announces CCS demonstration project

21 May 09 - Southern Company has announced plans for to demonstrate CCS at Alabama Power's coal-fired Plant Barry in Alabama. Captured CO₂ will be supplied to the US Department of Energy's Southeast Regional Carbon Sequestration Partnership for transport by pipeline. It will be stored at a site in the Citronelle Oil Field operated by Denbury Resources. Other project partners include Mitsubishi Heavy Industries and the Electric Power Research Institute. View the [press release](#).

US researchers to study CO₂ storage at Sleipner

21 May 09 - Researchers funded by the US Department of Energy will collaborate with StatoilHydro to track CO₂ injected into the Sleipner gas field in the North Sea. Gravity surveys will be conducted to monitor migration of CO₂ through the storage site. The project will last two years. View the [press release](#).

Reports

US DOE releases report on potential for CO₂ storage

14 May 09 - The Office of Fossil Energy's National Energy Technology Laboratory has published a new report, entitled *Storage of Captured Carbon Dioxide Beneath Federal Lands*, as a complementary document to the US Department of Energy's 2008 Carbon Sequestration Atlas. The report estimates that there is potential to store between 126 and 375 billion tonnes of CO₂ under approximately 400 million acres of Federal land. View the [press release](#).

Upcoming events

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, adaption 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



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 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 (CO₂-EOR)
- Public acceptance for CCS

For more information, please visit:
www.americanconference.com/CCS



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

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

Expperts 2009



13 - 14 October 2009, Berlin, Germany

Modern Power Systems invites you to attend the Second Annual Expperts 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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