



**Carbon Capture &
Storage Association**

Issue No. 73
Week 1 August 2010

CCSA Weekly Newsletter

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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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UK News

Lord Hunt Oral Question on Carbon Capture and Storage

28 July - Lord Hunt put forward a question on the subject of coal and gas CCS at the House of Lords. Lord Hunt highlighted that coal will be a prime energy product in the foreseeable future, and with the UK's natural reserves on coal and CCS export potential. Lord Marland agreed that the priority must be on coal CCS, and that the Government is considering advice from the Committee on Climate Change to support at least one gas CCS project.

The subject of storage in North Sea aquifers, time scales involved in deploying CCS commercially and the UK-China CCS projects for near-zero carbon emissions and the role of the UK in CCS development were also discussed. View the [question](#).

Cameron Praises Edinburgh University for Carbon Capture Research

30 July - UK Prime Minister David Cameron, on his official visit to India, praised Edinburgh University for its work on carbon capture research in India. He explained his belief that the UK can be leader in carbon capture and storage technology. One of the purposes of Cameron's visit is to increase collaboration in energy research. View the [full story](#).

Campaigns Launched Against Hunterston Coal Plant, Scotland

1 August - Christian Aid launched an online campaign asking supporters to lodge objections to building a coal-fired power plant without full carbon capture and storage, as they believe it would '...undermine Scotland's claim to taking an international lead on cutting greenhouse gas emissions'. Oxfam have also objected to plans to build Hunterston, whilst the Scottish Wildlife Trust has started a campaign, due to concerns that animals and plants will suffer. Largs Yacht Haven is worried that coal shipments and leaking dust will deter visitors; whilst the Clyde Muirshiel Regional Park Authority believes the project will damage the landscape and put off visitors. The Government's wildlife agency, Scottish Natural Heritage (SNH) will not object, but will work to 'minimise the impacts of the development'. Ayrshire Power believes that this would be a 'fantastic opportunity to establish Scotland as an international base for carbon capture and storage. View the [full story](#).

Foster Wheeler receives order from Kingsnorth

4 August - CCSA Member E.ON UK has placed an order with a consortium including the Foster Wheeler AG Global Engineering and Construction Group to support the front-end engineering design (FEED) for a post combustion carbon capture and compression plant as part of E.ON's new supercritical coal-fired power station in Kingsnorth, with two new high-efficiency 800 MW coal-fired units using the latest supercritical technology to replace the existing coal-fired units. The Foster Wheeler contract value was not disclosed, but will be included in the company's third-quarter 2010 bookings. View the [full story](#).

UKCCSC Biannual Meeting

Registration is now open for the next UKCCSC meeting, which will take place 14-15 September at the University of Leeds. It will focus on the European CCS scene. Visit the [website to register](#).

Vince Cable announces Low Carbon Investment

5 August - Business Secretary Vince Cable visited the North East of the UK to announce the latest funding package of £4.6 million from the Tees Valley Industrial Programme (TVIP) for 14 projects in the region, with £1.3 million of this being used to develop CCS in the North East. The Government has invested £30 million of the £60 million allocated to TVIP. This investment will create over 1,700 full time jobs and safeguard 1,200 more. Overall, the Programme will create 3,000 jobs and sustain over 10,000 jobs in the long term. View the [article](#).

International News

Japan to Demonstrate New Gas CCS Technology

30 July - Demonstration tests are to begin in Japan for a new technology to capture and recover CO₂ from natural gas. JGV, INPEX and BASF will work together on testing this technology at INPEX's Koshijihara natural gas plant starting August 2010.

JGC and BASF together developed the new technology, High Pressure Acid Gas Capture Technology (HiPACT), in 2004 and it has been found to show a significantly higher CO₂ absorption rate than existing processes, and can recover CO₂ from high-pressure conditions. HiPACT reduces the overall power consumption of a facility and requires lower investment costs. View the [full story](#).

Siemens to supply CCS technology for the Texas Clean Energy Project

2 August - Siemens (CCSA member) has been awarded a Front End Engineering Design (FEED) contract by Summit Texas Clean Energy LLC to provide coal gasification and power block technology for the Texas Clean Energy Project (TCEP). The project received a US\$350 million award from the U.S. Department of Energy's Clean Coal Power Initiative (CCPI)-Round 3 to demonstrate the commercial integration of large-scale IGCC with CO₂ capture and geological storage. This new polygeneration coal IGCC project will have a gross capacity of 400MWe, with a carbon capture rate of 90% (around 3 million tons/year), making it one of the largest rates in the world. The CO₂ will be used for enhanced oil recovery in the West Texas area. The TCEP will be located in Penwell, near Odessa, Texas. Siemens will work with Fluor Corporation and Linde during the project's FEED. View the [full story](#).

Canada: Alberta Government and TransAlta Partnership in CCS project

3 August - The Government of Alberta and TransAlta are working together on a coal-fired plant that will capture and store up to 1 Mt per year of carbon dioxide. Project Pioneer at

the Keephills 3 plant will use the CO₂ for enhanced oil recovery or stored. Alberta will invest C\$431 million over the next 15 years through its C\$2 billion CCS fund. A further C\$5 million will be provided to support front end engineering and design. The private project partners are TransAlta, Capital Power and Alstom. View the [full story](#).

Bellona CCS Roundtable in Hungary

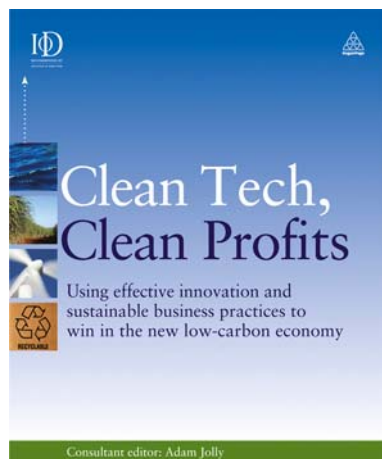
3 August 2010 - A meeting hosted by the British Embassy and co-organised by Bellona and Hungarian environmental NGO Energia Klub brought together more than 30 participants representing governmental departments, major power companies, environmental NGOs and research institutions to discuss CCS issues such as safety, long-term responsibility and economic efficiency. Eivind Hoff, director of Bellona Europe, presented the 'Bellona Scenario', suggesting that although there is no single solution for reaching a carbon neutral economy, CCS and carbon negative energy could contribute 30% to long-term climate mitigation targets. Péter Kardos, climate change expert from Energia Klub, and Chris Littlecott, from NGO Green Alliance, also provided keynote discussions on unanswered concerns on CCS deployment and the UK's CCS policy. View the [full story](#).

Total Rules Out Carbon Capture for Joslyn Mine

4 August - Total has confirmed that it will not use carbon capture technology in the first phase of its Joslyn North Mine project, due to the expense. Total had suggested in its 2009 report that it was considering using CCS in its oilsands projects in Canada. Total E&P Canada president Jean-Michel Gires says that carbon capture technology is more likely to be implemented around 2020. He estimates the net cost of capturing carbon dioxide today at \$100 a tonne, and costs need to be cut before the technology can be applied. View the [article](#).

Reports

Clean Tech, Clean Profits August 2010



Technology Strategy Board
Driving Innovation

Clean Tech, Clean Profits (published August 2010) is available directly from the publisher, Kogan Page. To take advantage of a 30% discount, and buy a copy of the book for £21 instead of the usual £29.95 simply contact Taryn Sachs (tsachs@koganpage.com), quoting the code CTCP2010.

Impact of Knowledge and Misconceptions on Benefit and Risk Perception of CCS

3 August- A new report was published today by the Institute for Environmental Decisions (IED), ETH Zurich. A representative survey of 654 people in Switzerland was conducted to study the main concepts that affect the risk and benefit perception of CCS by laypeople. It was found that the concept of an over pressurized reservoir and concerns about diffuse impacts amplified risk perception. Appropriate images about storage mechanisms and climate change awareness were found to increase the perception of benefits, whilst knowledge of CO₂ seemed to lower the perception of benefits and risks. The implications for risk communication and management are also discussed, as well as the position of CCS in Hungary. View the [report](#).

SUDG launch new 'Sustainable Development and the Sea' brochure

The Seabed User & Developer Group (SUDG) launched their new 'Sustainable Development and the Sea' brochure on 21 July at the House of Commons. The reception was hosted by Anne Begg MP and DEFRA minister, Richard Benyon MP, who made the keynote speech. SUDG represents marine industries committed to sustainable development, including oil and gas, renewable energy and CCS. SUDG worked closely with Government, regulators and conservation bodies during the development of the Marine and Coastal Access Act, which requires that decisions about managing the sea should take into account the socio-economic value of any development proposal as well as the environmental consequences. View the [press release](#) and the [brochure](#).

Upcoming events

Global Carbon Capture, Utilization & Storage Summit 2010: *The Road to Deploy*



Name: Global Carbon Capture, Utilization & Storage Summit 2010

Dates: 17-19 August 2010

Location: Shanghai, China

Contact Telephone: +86 (0)10 6500 1048

Email: info@acceunited.org

Register: <http://www.acceunited.org/c15026/c15033.asp>

Global CCUS Summit 2010 is the first ever forum in Asia featuring large scale deployment of CCUS globally, initiated by Asian Coalition for Climate and Energy (ACCE). Global CCUS Summit 2010 will be a solid step to deployment of CCUS in the world. It aims to facilitate the most important aspects of the development and deployment of CCUS technology-sharing of information and best practices, so that industrial scale CCUS can be realized by 2020. "Working together, we can accomplish more than acting alone." said U.S. Energy Secretary Steven Chu.

Key Features:

- Access to Global Leadership in CCUS Actions
- Meet up CCUS Policy Makers/Industry Executives/Experts
- Deployment of Large Scale CCUS Demo Projects
- Share global Research Findings & Near Term Goals for R&D
- Develop Technological and Funding Strategies
- Identify Global Partnership and JV Opportunities
- Share Live CCUS Projects Experience
- Source Development Support for Projects and Progress

CCSA members are entitled to a 10% discount, please quote CCSA-ACCE when registering.

Register now at:

<http://www.acceunited.org/c15026/c15033.asp>

Or email info@acceunited.org and quote CCSA-ACCE.

Global XTL & IGCC Congress 2010



Global XTL & IGCC Congress 2010

September 15-17th 2010 Beijing | China

Sept. 15-17 2010, Beijing China

Supported by: CCSA (Carbon Capture & Storage Association)
TETA (Taiwan Emission Trading Association) CACS (Chinese-American Chemical Society)

In response to the increasing consideration on Low Carbon Economy, energy industry is seeking alternatives to be fully involved. As a leading country for both energy production and consumption, China is playing a more and more important role in the low carbon field. Estimated amount of natural gas reserves has continuously increased over the past ten years, moving from the 1997 estimation of 152.2Tcm to 187.76Tcm in 2009. It is thus quite logical to envisage using natural gas as a source of liquid transportation fuels, through natural gas conversion into liquid hydrocarbons (GTL)

With major projects in the fields of GTL, CTL, IGCC and CCS being implemented worldwide, Global XTL & IGCC Congress 2010 has been updated to incorporate the latest developments and will provide an in-depth overview of syngas production; F-T synthesis, process economics and the role of contractors in turning GTL concepts into viable projects.

Event Section Highlights

DAY 1

Global XTL Overview
World Gas to Liquid

DAY 2

Coal to Liquid Tech & Significant Projects
Clean Power Generation-IGCC & CCS

DAY 3

Tomorrow's Low-emission Power Generation

You will network with the Project Owners:

ShenHua Group	HuaNeng Group
YanKuang Group	DaTang International
GuoDian Group	Tongliao GEM Chemical
JinMei Group	China Power Investment Corporation
Oryx GTL	Shell GTL

For more updated information for this congress, please visit:
www.asiaxtltech.com

About the organizer, please view at: www.atunicorn.com

As a member of CCSA, you may enjoy 10% off discount offered by the organizer. For more information, please contact Ms. Echo Sun via: echo.sun@atunicorn.com or +86 (21) 33600066

ACI 4th annual CCS Summit

ACI presents the 4th annual

Carbon Capture and Sequestration Summit

September 29-30, 2010

Capitol Hilton, Washington DC

www.CarbonCaptureSummit.com

An executive-level forum for CCS stakeholders, focused on establishing a legislative, regulatory and economic framework to accelerate the commercialization of CCS. Gain invaluable first hand strategic insights from practitioners are the forefront of CCS activity.

As a member of CCSA you are entitled to a \$400 discount off the full price (pay \$1195 instead of \$1595) when using discount code CCSA.

Carbon Capture and Storage: How is it working and what next?

**Institution of
MECHANICAL
ENGINEERS**

13-14 October 2010

Institution of Mechanical Engineers, London

Book now or view the full programme:
www.imeche.org/events/S1516

*** CCSA members get to attend at the discounted IMechE Member Rate ***

Key figures from Government and industry will provide an update on policy, legislation and funding issues as well demonstrating that the real technical challenges of CCS are being addressed in pilot and operational projects around the world on day one.

A series of case studies will be presented from actual operational plants in the UK, Europe and USA covering the whole spectrum of processing alternatives through capture, transport and storage identifying the operational flexibility obtained and issues of equipment functionality on day two.

Day One:

Current Policy, Legislation and Regulation
CCS Project Finance and Incentives
Evening Drinks Reception and Buffet

Day Two:

Ongoing CCS Project Case Studies

Attending this event will help you:

- Obtain an update on current policy, legislation and funding issues
- Learn about real the challenges in CCS that remain to be solved from key industry experts
- Learn from a series of case studies on actual operational plants in the UK, Europe and USA that are in operation now
- Find out about operational flexibility and key issues of equipment functionality
- Network with key industry players during the day and the evening drinks reception

Technical Advantages:

- The breadth of project requirements and solutions described will help any organisation seriously look at what they should be doing
- All speakers will be open to questions in the plenary and networking sessions

Who should attend?

This event is an ideal opportunity for specialist designers, plant owners, operators, investors, financial advisers, insurers and policymakers to gain an understanding of the range of issues involved and solutions available in developing, owning and operating power/process plants with installed carbon capture and meeting government and European legislative requirements.

For further information contact:

Taz Khatun, Events Executive on Tel: 020 973 1306 or Email: t_khatun@imeche.org

2010 SPE International Conference on CO₂ Capture, Storage, and Utilization



10-12 November 2010

New Orleans, Louisiana

This conference gathers professionals in science, engineering, and policy to present and discuss the key issues surrounding the capture of carbon dioxide from anthropogenic sources and storage underground, and its beneficial use for enhanced recovery. It also addresses the legal and regulatory issues related to these activities. Everyone from Business Development Managers, Scientists, Researchers, CO₂ Project Managers, and Drilling Supervisors to Geologists, Petroleum/Reservoir Engineers, Professors, and

Environmentalists will benefit from the exceptional technical program being presented at this conference. [Click here](#) to see why you must attend the SPE International Conference on CO₂ Capture, Storage, and Utilization.

For more information on this conference, please visit www.spe.org/events/co2/2010

CCSA members are entitled to SPE Member pricing, a savings of USD 200. Please quote CCSA member when registering.

Register at:

www.spe.org/events/co2/2010/pages/general/registration.php

Or email registration@spe.org and quote CCSA member.

Follow us on Twitter:

www.twitter.com/HFreeman_SPE #SPECO2

5th annual ENERGY International Forum:

SUSTAINABLE ENERGY IN A CHANGING WORLD



November 22-24, 2010/ The Dorchester Hotel/ London

Register now to meet all the relevant players on the international Energy market at the most important Reunion of political decision-makers and business executives in 2010.

Among the speakers: Tim Yeo, MP, Chair of the House of Commons Environmental Audit Committee, UK Parliament, Keith Melton, President, European Renewable Energy Centers Agency (EUREC), Jeff Chapman, Chief Executive, the Carbon Capture & Storage Association.

Who is attending:

Decision makers in the oil, gas and the power sector
Technical experts and solution providers from E.U., USA, Russia, Turkey
Governmental agencies & regulatory boards
Energy infrastructure development entrepreneurs
Financiers
Market analysts
Business consultants

Agenda highlights:

Green Energy: Expanding the role of renewable in the mix generation
The EU Energy Strategy and the Development of Sustainable Economy in Europe
Safety of Nuclear Power Plants
The role of renewable energy systems in meeting the energy demand for new technologies in infrastructure
Clean Energy Policy, Directions for 2011 and Beyond

Politics, Regulations and International Strategies for the Energy Markets
 Future of Traditional Energy Sources
 Renewable Energies in the Economic and Financial Crisis for Sustainable Economic Growth

Click [here](#) to read more details on the ENERGY 2010 International Forum in London.

CCSA membership DISCOUNT! : Receive a special 25% discount from the registration fee through membership of the CCSA!!! Just submit your registration request at roxana.dinca@foruminvest.ro, specifying your CCSA membership status.

The 2010 National CCS Conference



Park Hyatt Melbourne, Victoria, Australia | 28th - 30th November 2010

Australia's CCS leaders invite you to the inaugural National CCS Conference, a major opportunity to be informed, to debate and to connect with others involved in the multi-faceted field of carbon capture and storage.

The conference will go beyond the technical challenges, bringing together stakeholders from all areas of CCS development to tackle the barriers to deployment of this critical low emission technology.

The 2010 National CCS Conference will feature a program of high profile speakers in fields including economics and finance, stakeholder engagement, technology and engineering and the latest developments in policy, legislation and regulation.

The conference will provide updates on major Australian and international CCS projects and unparalleled opportunities to network with leaders in the global CCS arena.

The National CCS Conference is designed for:

- Energy industry leaders
- Banking and finance industry
- Federal, state and local government
- Community leaders
- Economists
- Technology providers
- Policy advisors
- Project developers
- International investors
- Stakeholder engagement advisors
- Engineers
- NGOs
- Researchers
- Students

The Conference is the central event of National CCS Week, a program of CCS-based events around Australia held from 28 November to 3 December 2010.

For more information about the conference, including pre-registration, sponsorship and exhibition opportunities, visit <http://www.NationalCCS.com.au>

World Clean Coal Week (WCCW) China Focus



Time: Nov 29 - Dec 3, 2010
 Location: Beijing, China
 Tel: +86 21 5830 0710
 Fax: +86 21 5831 1668
 E-mail: info@szwgroup.com
 Website:
<http://www.szwgroup.com/2010/cleancoal/index.asp>

On behalf of the Organizing Committee, we would like to invite you to attend the World Clean Coal Week (WCCW), China Focus scheduled on Nov. 29 - Dec. 3, 2010.

Supported by National Energy Administration, IEA Clean Coal Centre and Carbon Capture & Storage Association, WCCW, China Focus serves as the best platform for China clean coal business to grow and expand. As the most comprehensive program on clean coal technologies, WCCW will welcome over 350 delegates from Coal-To-Liquid, Coal Gasification, IGCC and Carbon Capture Storage sector at this annual event.

Pre-forum Workshops | 3 Days Forum | Post-Forum Field Visit | 18 Boutique Exhibitions | 350+ Attendees | 45+ Eminent Speakers | 25+ CTL & IGCC/CCS Project Updates

We have updated the WCCW Agenda with more than 40 SPEAKERS from below. For more information, please contact us.

Clean Coal Project Developers & Technology Leaders

- **Coal Companies:** China Shenhua, Yankuang Group, Lu'an Mining Group, Peabody
- **Power Companies:** China Huaneng, China Datang Corporation, China Power Investment, Duke Energy, AEP, Future Fuels, Scottish Power, RWE
- **Gasification:** GE, Shell, Lurgi, GL, Mitsubishi, Air Products, Air Liquide
- **Oil and Gas Companies:** Total, Statoil, Schlumberger, BP, PetroChina, CNOOC
- **Engineering**
- **Clean Coal Equipment Providers**

Why Clean Coal China a MUST

- Gain essential insight into the progress made within the industry
- Debate the potential for coal in the energy mix
- Evaluate the latest CTL, IGCC & CCS developments
- Explore the possibilities of developing niche markets with gasification
- Hear from pioneers of the coal fired power plant with CCS
- Analyze operational examples of alternative clean coal technologies

Interested in Speaking

For speaking & sponsorship opportunities, contact Ms. Evonne Wu on +86 (21)5830 0831 or email at: evonne@szwgroup.com

As a member of CCSA, you may enjoy 10% off discount offered by the organizer.

2nd Annual Brussels Carbon Capture and Storage Summit



Sofitel Europe, Brussels, 26th January 2011

www.ccsconference.eu

Following on from the success of last year's inaugural Brussels CCS summit, this high-level conference will be taking place on the 26th January 2011. We expect to welcome over 200 European and global stakeholders to the event, including representatives from industry and environmental organisations, as well as policy makers from the EU institutions and member state governments. The 2nd Brussels CCS Summit will seek to identify and explore in detail what can be done to clarify and progress the demonstration of CCS, focusing particularly on the issue of finance and regulation, and will pose the question: will the technology be ready in Europe by 2020?

Sessions will look at:

NER300 and the ETS

EU & Member State policy tools - Striking the right balance

Global CCS Development - The Current State of Play

More information and confirmed speakers will be available soon, so check our website regularly at www.ccsconference.eu where you can also register online. A 10% discount is available for CCSA members. Please use discount code CCSA10 when making your registration.

For further information, including details of sponsorship opportunities, contact James Wilmott on +44 (0) 2920 783 022 or james.wilmott@forum-europe.com