



Carbon Capture & Storage Association

Issue No. 77
Week 1 September 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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To be considered by the Board for Membership please contact:

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UK News

DECC CO2 Storage Licensing Plans Published

27 August - The Government has released its plans on how it will license CO2 storage under the sea bed, following its recent consultation on geological storage of CO2. DECC will now lay the regulations before Parliament in order to comply with European rules on the underground storage of CO2. These will come into effect on 1 October. Charles Hendry MP, Minister of State for Energy said: "Carbon capture and storage is essential for mitigating climate change while maintaining energy security." View the [plans](#).

International News

CO2CRC Carbon Capture Projects Extended

24 August - Two CO2 capture projects developed by the Cooperative Research Centre for Greenhouse Gas Technologies (CO2CRC) are to receive \$850,000 in additional funding. These are two of five projects to receive funding from Brown Coal Innovation Australia (BCIA) under the Victorian Government's Energy Technology Innovation Strategy (ETIS). View the [story](#).

University of Alberta (UoA) Unveils New Geomechanical Reservoir Experimental Facility (GeoREF)

26 August - Gary Goodyear, Canadian minister of state (science and technology) has unveiled the \$4.1 million GeoREF, located in the Natural Resources Engineer Facility at the UoA. This facility includes testing technology for CCS not yet seen in other universities across Canada. View the [full story](#).

ENDESA to Construct Plant with Limestone-based CO2 Capture Technology

27 August - ENDESA in partnership with Hunosa and the Spanish Scientific Research Council (CSIC) has started construction of a 1MW carbon capture plant in La Pereda, Mieres, Asturias. The project is supported by the Seventh European Framework Programme. The pilot plant will be integrated into the La Pereda thermal plant owned by HUNOSA. This is part of a cooperation agreement between ENDESA, Hunosa and CSIC for the development of CO2 capture technology using limestone as absorbent. The plant will have a capture capacity of 8 tonnes of CO2 per day with an efficiency of 90%. It is expected to start up in early 2011. View the [press release](#).

Clean Global Energy Limited: Research into Advancing Underground Coal Gasification (UCG) and CCS

30 August - Clean Global Energy Limited has formed an agreement with universities in Australia and the U.S. to further research the technical and environmental applications of UCG and CCS. The company will provide grants to the Australian Centre for Sustainable Mining Practices and the School of Mining Engineering at University of NSW and the Colorado School of mines. View the [story](#).

Reports

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

Carbon Capture and Storage

Westminster Energy, Environment & Transport Forum - London, 9th September Full details and booking: www.weetf.co.uk
Carbon Capture and Storage
 Guest of Honour: Nick Horler, Chief Executive Officer, Scottish Power
 and Adam Dawson, Chief Executive, Office of Carbon Capture & Storage, Department of Energy and Climate Change

Date: Thursday 9th September 2010
 Venue: Congress Hall, Congress Centre, 28 Great Russell Street, London, WC1B 3LS. View [map](#).
 Website: [Carbon Capture and Storage](#)

This event is CPD Certified

Guests of Honour: Adam Dawson, Chief Executive, Office of Carbon Capture & Storage, Department of Energy and Climate Change and Nick Horler, Chief Executive Officer, Scottish Power

This seminar will give latest views on the prospects for the wide-scale commercial development of Carbon Capture and Storage (CCS), including the key challenge of building greater public acceptance in the UK and internationally. With a senior contribution from the Department of Energy and Climate Change on the long term strategy for CCS, planned sessions explore the questions that remain over the viability of the technology itself, the progress that has been made on design, and the practicalities and cost of roll-out.

We are delighted that Adam Dawson, Chief Executive, Office of Carbon Capture & Storage, Department of Energy and Climate Change; Nick Horler, Chief Executive Officer, Scottish Power and Dr Jim Watson, Director, Sussex Energy Group, University of Sussex have kindly agreed to deliver keynote addresses at this seminar.

Other confirmed speakers include: Dr Jeff Chapman, Chief Executive, Carbon Capture & Storage Association (CCSA); Kirsty Clough, Climate Change Policy Officer, WWF-UK; Neil Crumpton, UK Representative, The Bellona Foundation; Dr Jim Fitzgerald, Assistant Director, Ernst & Young; Dr Tim Fox, Head of Energy and Environment, Institution of Mechanical Engineers; Professor Jon Gibbins,

Professor of Power Plant Engineering and Carbon Capture, University of Edinburgh; **James Lyall**, Senior Manager, Knowledge Management, Accenture; **Ian Phillips**, Director, CO₂ Deepstore and Chair, CCSA Regulatory Workgroup and **William Wilson**, Barrister, Energy and Utilities, Burges Salmon.

Tom Greatrex MP, Member, Energy and Climate Change Select Committee and **Lord Oxburgh**, Honorary President, Carbon Capture & Storage Association (CCSA) have kindly agreed to chair this seminar.

[Book your place.](#) [Download latest agenda](#)

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

The 10th International Conference on Greenhouse Gas Control Technologies (GHGT10)



Name: GHGT10

Dates: 19-23 September 2010

Location: RAI Amsterdam, The Netherlands

Email: ghgt10@ghgt.info

Register: www.ghgt.info and click on the register online link.

The organising committee (OC) of the 10th International Conference on Greenhouse Gas Control Technologies invites you to Amsterdam. In September 2010 GHGT-10 is intended to provide a platform for fruitful discussions on ways to overcome the barriers to - and to find opportunities for - implementing greenhouse gas mitigation technologies. Discussions about technological and other policy-related developments will play a prominent role in the conference.

The Greenhouse Gas Control Technologies (GHGT) conference series was formed in 1997 following the merger of the earlier series of International Conference on Carbon Dioxide Removal (ICCDR) and the Greenhouse Gas Mitigation options conference. IEA Greenhouse Gas R&D Programme (IEA GHG) are the guardians of the GHGT conferences which are held every two years. The conference series rotates between, North America, Europe and Asia.

Technical Themes:

- Developments in CO₂ capture technology,
- Developments in CO₂ storage
- CCS Infrastructure and system integration
- Towards negative CO₂ emissions
- CO₂ utilisation
- Relation between CCS and Energy and Climate policies
- Legal aspects of CCs and long term liability of CO₂ storage
- Public perception and acceptance of CCS, communication on CCS and capacity building
- National and international programmes on CCS research and demonstration
- CCS demonstration projects

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.

CASSEM Conference

CASSEM

CO₂ Aquifer Storage Site Evaluation and Monitoring

4th October 2010

Our Dynamic Earth, Edinburgh

CASSEM is a £2.5million, three-year project funded by the EPSRC and involving ScottishPower, Scottish and Southern Energy, AMEC, Schlumberger, Marathon Oil, University of Edinburgh, Heriot Watt, British Geological Survey and Tyndall Centre, which has developed methodologies, workflows and insights, essential for the successful identification and evaluation of safe and effective CO₂ storage in saline aquifers.

The project work is now complete, the project partners want to share the knowledge acquired during the CASSEM project with the wider CCS community so would like to invite you to attend the CASSEM conference.

There will be a small charge for the conference of £40 per person.

The conference will be held on the 4th October at Our Dynamic Earth in Edinburgh.

To register please follow the link www.cassem.org.uk

The Carbon Show

The Carbon Show 4 & 5 October 2010 | Business Design Centre, London
The exhibition for trading, reducing & managing carbon



Monday, 4 October 2010 | 9am - 6pm

Tuesday, 5 October 2010 | 9am - 5.30pm

<http://www.thecarbonshow.com>

The exhibition dedicated to reducing, managing and trading carbon

Providing resources, products and strategies needed to excel in the new low carbon economy, this business event will showcase over 100 exhibitors leading the way in carbon

reduction, energy efficiency and carbon trading. The specialised speaker programme featuring a key note address from Chris Huhne, Secretary of State for Energy and Climate Change, DECC, as well as Lord Browne and Michael Heseltine Chairman, Haymarket Media Group. "The Carbon Show 2010 is well timed" says Lord Heseltine, "Now more than ever it is critical that business leaders commit to revolutionising their organisations to ensure they can compete in the future low carbon market place."

Join us at **The Carbon Show** to keep up to date on industry developments ahead of COP16 and meet potential new clients and contacts to network and do business.

Key Features:

- Carbon Stage - Showcasing the latest industry innovations, recent research and reports, plus interviews with leading carbon experts
- Carbon Show Party - Sponsored by greenmarket, offering premier networking opportunities for all delegates of the Carbon Show
- Investors Forum - Meet key suppliers face to face and discuss your requirements

Register now at: <http://www.thecarbonshow.com>

Institution of Mechanical Engineers: Carbon Capture and Storage 2010 Seminar

CARBON CAPTURE AND STORAGE: HOW IS IT WORKING AND WHAT NEXT?

CARBON CAPTURE AND STORAGE: HOW IS IT WORKING AND WHAT NEXT?

13-14 October 2010

Institution of Mechanical Engineers, London

Book now or view full programme:

www.imeche.org/events/S1516

****CCSA Members get to attend at discounted IMechE Member Rate****

Gain insight into current policy, legislation and funding issues, understand how technical, regulatory, safety and environmental challenges of CCS are being addressed across industry on day one. Keynote presentation by Charles Hendry MP, Minister of State, Department of Energy & Climate Change

Learn from a series of case studies based on practical experience of the technical and operational challenges of developing CCS projects across the world on day two.

Organisations presenting: HSE, DECC, ScottishPower, Det Norske Veritas Ltd (DNV), E.ON UK Plc, Powerfuel Power Ltd, Environment Agency, Arup, AMEC, M.W. Kellogg Ltd, Foster Wheeler Energy Ltd, FLUOR Ltd, Burges Salmon, Schlumberger Carbon Services, IEAGHG, Sinclair Knight Merz (Europe) Ltd, 2Co Energy Ltd, University of Edinburgh, University of Durham,

Benefits of attendance:

- Get update on current policy, legislation and funding issues
- Learn about the real challenges in CCS that remain to be solved from key industry experts
- Learn from a series of case studies on plants in the UK, Europe and USA that are in operation now

- Find out about operational flexibility and key issues of equipment functionality
- Obtain an overview of projects implementing CCS
- Get detailed updates of IGCC and post combustion projects
- Gain an understanding of current developments of Post combustion capture on CCGT's
- Receive an update on technical issues surrounding CO₂ transportation infrastructure
- Understand progress being made on storage site appraisal
- Gain knowledge of current thinking of enhanced oil recovery

Who should attend?

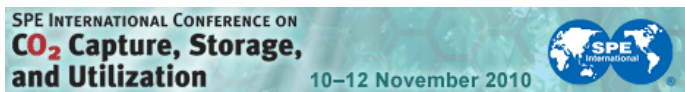
Specialist designers, plant owners, operators, investors, financial advisers, insurers and policymakers.

Event enquiries: Taz Khatun, Events Executive on 020 7973 1306 or email t_khatun@imeche.org

Supporting organisations get to attend at reduced IMechE Member Rate

See registration form for full list

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](https://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