



Carbon Capture & Storage Association

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CCSA Weekly Newsletter

Page 1	Page 2	Page 3	Page 4	Page 5
Headlines	UK News International News	International News Reports Upcoming Events	Upcoming Events	Upcoming Events

UK News

- Coalition Releases First Annual Energy Statement
- 2Co Energy Limited receives commitment of funds from TPG

International News

- Green Research Funding for 2011 announced by European Commission
- Canadian Government investing in clean energy in Atlantic Canada
- Joint Canada-U.S. Carbon Capture and Storage Project China and US Continue Joint Research on CCS
- U.S.: "Clean coal" Power Plant Given Extra Funding
- U.S. Department of energy announces funding for two demonstration projects
- Fluor Corporation's Carbon Capture Technology To Be Used by Tenaska
- Australia-China Collaboration in \$10 million demonstration project
- Global CCS Institute to decide on project funding

Reports

- Study on China's First CO2 Capture Plant

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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To be considered by the Board for Membership please contact:

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UK News

Coalition Releases First Annual Energy Statement

27 July 2010 - Energy and Climate Change Secretary Chris Huhne has released the first Annual Energy Statement, which provides 32 action points for energy and climate change policy of the coalition government, as well as announcing 6 pathways to 2050 that could result in an 80% decrease in carbon emissions, and a '2050' calculator which allows the public to explore the trade-offs required to create a secure, low carbon energy system in the future. The 2050 pathways concentrate on a combination of renewables, nuclear and carbon capture and storage.

The Annual Energy Statement reaffirms the Coalition's commitment to continuing public sector investment in four CCS demonstration Projects and establishing the Emissions Performance Standard (EPS) to limit CO2 emissions for future coal-fired stations.

Finally, a CCS Development Forum will be launched to hold the DECC to account on delivering its CCS commitments, in order to promptly deliver CCS in the UK and address potential barriers. A CCS Roadmap is intended to be published with proposed time-scales as well as key policy and commercial issues that have to be addressed and when. View the [statement](#).

2Co Energy Limited receives commitment of funds from TPG

7 July - 2Co Energy Limited, a new energy company with aims to reduce CO2 emissions from fossil fuels, has announced that it has received a commitment from funds managed by the global investment firm TPG. 2Co has expertise in CCS and Enhanced Oil Recovery, and plan to provide CO2 storage solutions for CCS projects seeking UK and EU funding, and will focus on storing the CO2 permanently in oil fields. It will invest in the North Sea and is looking for opportunities to participate in carbon capture plants and infrastructure. View the [press release](#).

International News

Green Research Funding for 2011 announced by European Commission

23 July - The European Commission (EC) has announced funding of €210m for EU energy research next year, with €15m dedicated to CO2 Capture Projects. This is part of the EU's seventh research framework programme (FP7) which will allocate €6.4bn funding between 2007-13. View the [full story](#).

Canadian Government investing in clean energy in Atlantic Canada

25 July 2010 - The Clean Energy Fund, part of Canada's Economic Action Plan is investing \$795 million in clean energy technology development and demonstration over five years.

Three carbon capture and storage projects have been announced, totalling \$466 million from the fund. View the [full story](#).

Joint Canada-U.S. Carbon Capture and Storage Project

26 July 2010 - The Honourable Christian Paradis, Minister of Natural Resources (Government of Canada), and Steven Chu, (Secretary of the U.S. Department of Energy) have announced \$5.2 million in new funding for the \$80 million, International Energy Agency (IEA) Greenhouse Gas Weyburn-Midale CO2 Monitoring and Storage Project launched in 2000. This is part of the Canada-U.S. Clean Energy Dialogue, announced by President Obama and Prime Minister Stephen Harper in February 2009. Government of Canada is contributing \$2.2 million, bringing its total contribution to project \$15.2 million. The US will be investing another \$3 million into the project. Research will further the knowledge of measurement, monitoring and verification of CO2 storage in depleted oil reservoirs. It also aims to demonstrate that CO2 can be stored safely. View the [full story](#).

U.S.: "Clean coal" Power Plant Given Extra Funding

26 July 2010 - The US Department of Energy has announced that it will award an extra \$417M in federal tax credits to Tenaska Corp, for its plant in Taylorville as it promises to reduce greenhouse gases by 65%, when it was originally expected to capture 50%. This brings the stake of the federal government in the project to \$3 billion. The plant is expected to cost \$3.5 billion, create 2,500 jobs, and is in negotiation for a \$2.5 billion federal loan guarantee. View the [full story](#).

U.S. Department of energy announces funding for two demonstration projects

26 July - The U.S. Department of Energy has funded two demonstration projects to advance CO2 capture technologies. Tampa Electric is in partnership with Siemens to pilot a project at Tampa Electric's Big Bend Power Station in Ruskin, Florida, that will capture CO2 from a conventional coal-fired power plant using the Postcap process developed by Siemens. The pilot plant will capture around 90% of CO2 from a slip stream of the flue gas stream. It is scheduled to operate in 2013.

Furthermore, Tampa Electric is in partnership with RTI International and Shaw Group to study new technology to clean synthetic gas at elevated temperatures, in order to evaluate the construction of a pilot project at the 250MW IGCC plant at Tampa Electric Polk Power Station. It is expected to reduce capital and operating costs of an IGCC plant that is fitted with carbon capture technology. View the [full story](#).

Fluor Corporation's Carbon Capture Technology To Be Used By Tenaska

27 July - Tenaska is to use Fluor's Econamine FG Plus SM Carbon Capture technology for the proposed Tenaska Trailblazer Energy Centre near Sweetwater, Texas. It will be a 600 MW pulverized coal plant that will capture 85-90% of CO₂ by-product, which will be sent to the Permian Basin and used in Enhanced Oil Recovery. View the [full story](#).

Australia-China Collaboration in \$10 million demonstration project

28 July - The Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia, will partner China United Coalbed Methane Corporation Ltd. (CUCBM) on a demonstration project to store 2000 tonnes of CO₂ in the Shanxi Province and extract methane, with aims to maximize CO₂ injection and methane recovery by drilling horizontally. This is intended to increase CSIRO's capabilities in a pilot-scale CCS demonstration projects. View the [full story](#).

Global CCS Institute to decide on project funding

28 July - The GCCSI will soon announce \$5 million to \$10 million to be spent on engineering studies for a project, with aims to have a portfolio of 20 projects from different geological areas with different technologies, retrofitting older plants, designing new plants, looking at cooling technology and shipping CO₂, so that lessons can be learnt from the demonstration phases. The Institute has 250 member groups, around a third of which are governments. These governments will be needed for funding, if the Australian government changes in elections next month.

The Institute has estimated that there are now 328 CCS projects, including 80 large-scale projects that have been announced, with around 60 of these having made progress within the past year. The Institute is also going to study issues such as long-term liability and public awareness. View the [full story](#).

Reports

Study on China's First CO₂ Capture Plant

27 July - A paper has been released on the subject of commissioning and industrial tests on China's first industrial scale CO₂ Capture Plant at Huaneng Beijing power plant. The efficiency of capture was found to be 80-85% and the electricity purchase price was found to increase by 29%. By the end of January 2009, around 900 tons of CO₂ (99.7%) had been captured. The paper concludes that the technology used in this project is a good option for use on commercial coal-fired plants. View the [full story](#).

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 #SPEC02

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 which 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 over 350 delegates from CTL, Coal Gasification and IGCC sector will attend 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, please call me on +86 (21)5830 0710 or send me an email at: info@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