



**Carbon Capture &
Storage Association**

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CCSA Weekly Newsletter

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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

Suites 142-153, 4th Floor
Grosvenor Gardens House
35-37 Grosvenor Gardens
London
SW1W 0BS
Tel: +44 (0) 20 7821 0528
Fax: +44 (0) 20 7828 0310
info@ccsassociation.org

For more information about the CCSA please visit our website: www.ccsassociation.org

To be considered by the Board for Membership please contact:

Pamela Rudolph
pamela.rudolph@ccsassociation.org

UK News

Low Carbon Energy Agreement with Mitsubishi

16 July 2010 - Mitsubishi (Mitsubishi Heavy Industries Ltd and Mitsubishi Power Systems Europe Ltd) and SSE (Scottish and Southern Energy plc) have entered into a strategic agreement to co-operate on low carbon energy developments. The agreement will enable the partners to explore a range of technologies including offshore wind farms, advanced technology for smart electricity grids and low carbon vehicles, carbon capture and storage and high-efficiency power generation. View the [press release](#).

Committee on Climate Change Calls for UK to Protect Funding for Development of Low-Carbon Technologies

19 July 2010 - The Committee on Climate Change (CCC) has published the report Building a low-carbon economy - the UK's innovation challenge, calling for the UK to ensure funding is maintained for the development and deployment of vital low-carbon technologies that will significantly help the UK reach its 2050 target of 80% reduction in emissions. The report recommends that funding should focus on six key technologies, one of which is CCS. In 2009/10, the UK spent £550m on low-carbon RD&D - as a percentage of GDP, this is currently less than several other countries, including Denmark, Norway, Japan, Korea, U.S. and France. View the [press release and full report](#).

New Inquiry Launched on Emissions Performance Standards

22 July 2010 - A new Inquiry has been launched by Parliament into Emissions Performance Standards (EPSs) for power stations. The committee wants to understand what impact an EPS would have on both the development of CCS as well as on domestic energy prices. The Commons Energy and Climate Change Committee is looking into what the level for an EPS should be in the UK both for coal and gas-fired plant. View the [full story](#) and the [Inquiry](#).

International News

US Publishes Report on Status of CCS

16 July 2010 - The U.S. Government Accountability Office (GAO) released a report entitled Coal Power Plants - Opportunities Exist for DOE to Provide Better Information on the Maturity of Key Technologies to Reduce Carbon Dioxide Emissions. The report concludes that commercial deployment of CCS is possible within 10-15 years, however there are a number of economic, technical and legal hurdles to overcome. Aside from the efficiency penalty, a major challenge for CCS deployment is the lack of a national carbon policy to reduce

CO2 emissions - such a tax on emissions. View the [full story](#) and the [report](#).

South Africa to Launch Atlas of Potential Carbon Storage Sites

19 July 2010 - An atlas showing the potential storage sites for compressed carbon in South Africa is due to be released next month. South Africa has a particularly high carbon footprint due to its reliance on coal-fired electricity, and The SA National Energy REsearch Institute (SANERI) has estimated in its annual report that 40 million tons of carbon dioxide a year could be stored geologically over the next 100 years in South Africa. View the [full story](#).

US Department of Energy Awards Grant to Siemens Energy for CO2 Capture

19 July 2010 - A carbon capture pilot plant for treating a slipstream at Tampa Electric's coal-fired power plant in Florida is being designed, installed and operated by Siemens Energy, through a \$8.9m grant from the US DoE. The post-combustion demonstration will treat a 1MW slipstream of the flue gas from the 1,892 MW power station, where the pilot will capture 90 percent of the CO2 emissions, and hopefully reduce the amount of energy traditionally required for carbon capture. This pilot plant is scheduled to be in operation in 2013. View the [full story](#).

Germany Prepares Legal Framework for CCS

20 July 2010 - The German Ministries of Environment and Economics have proposed a draft law for the development of CCS. The proposed law will initially set the rules for carbon capture and storage technology testing and demonstration, however it will also address safety concerns. According to the act, which is a revision of the 2009 *carbon capture law*, storage facilities must apply for a license by the end of 2015 and the amount of storage must not be greater than 3m tonnes of storage volume per year (over volume of stored CO2 must be less than 8m tonnes annually). The draft law will be discussed by the federal government and a final decision is expected by the end of 2010. View the [full story](#).

China and US Continue Joint Research on CCS

21 July - The Chinese Academy of Sciences has an MoU in place with the US Energy Department Pacific Northwest National Laboratory and the National Energy Technology Laboratory to enhance research and development in carbon capture and storage technologies. In June of this year, three different research projects under this MoU have now been given funding, as part of the two countries Clean Energy Partnership. The three research projects are; tackling issues around the cost of CCS deployment in China, improving gasification methods, and developing more efficient synthetic gas-to-natural gas conversions. View the [full story](#).

Britain and Australia Agree to Collaborate on Carbon Capture and Storage

21 July - Two days of talks took place this week in Washington between 21 nations on climate change and energy issues, as an offshoot of the US Major Economies Forum. The nations agreed 11 initiatives of joint work, including an agreement between Britain and Australia to work together on accelerating work on carbon capture and storage. View the [full story](#).

Chris Huhne Launches Global Carbon Capture and Storage Initiative

20 July - An international work programme to facilitate CCS enhancement and deployment has been announced by Chris Huhne, Secretary of State for DECC, as part of the first meeting of the Clean Energy Ministerial convened this week in Washington by US Secretary of Energy Steven Chu. Mr Huhne stated "that the new 'Carbon Capture, Use and Storage Action Group (CCUS) would bring together governments, businesses and other key stakeholders in a regular forum to debate, inform and help execute plans to accelerate CCS deployment between now and 2020." Mr Huhne also emphasised the importance of CCS technology for tackling climate change, however he stressed the need for governments to introduce frameworks for regulation and incentives to enable deployment. View the [press release](#).

EBRD to Provide Funding for Slovenian Power Plant

22 July - A new state-owned 600MW coal-fired unit designed to be CCS ready will receive co-funding from the European Bank for Reconstruction and Development (EBRD). The Termoelektrarna Šoštanj power plant, located in north-east Slovenia, will be the EBRD's first project with the ability to apply CCS, and should reduce CO2 emissions by around 1,2 million tonnes per year. The plant is being financed by a €200 million loan from EBRD and will be co-financed by the European Investment Bank. View the [full story](#).

New Element Energy study into the potential for CCS in the gas power and industrial sectors released

In June, the Committee on Climate Change published a report led by Element Energy Ltd, working with partners Carbon Counts and Amec, which quantifies:

- The technical potential for CCS in industry and the gas power sector.
- Plausible economic potentials (i.e. market sizes and breakdown) for CCS in industry and the gas power sector under a range of technology readiness, build rate and CO2 price scenarios.
- The impacts on CCGT-CCS economics in the context of high renewable penetration leading to low load factors for fossil plant

The report discusses the challenges posed by the need to operate flexibly, for example to manage intermittency caused by wind power. The report is useful for

- Energy and carbon market modelers
- Investors, owners, operators, suppliers and customers of gas power stations and heavy industry
- Developers of capture technologies
- Public and private stakeholders considering the development of regional CO2 transport networks.

To obtain a copy of the report, please email Kate.Harland@element-energy.co.uk or Harsh.Pershad@element-energy.co.uk or visit <http://www.theccc.org.uk>

Upcoming events

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.

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www.twitter.com/HFreeman_SPE #SPEC02

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>