



**Carbon Capture &
Storage Association**

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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

CCSA President's Reception

22 June - On Wednesday Lord Oxburgh, the Association's President, hosted the CCSA's summer reception at the House of Lords. The event was extremely well attended with representation by government officials, the energy sector, academia and, of course, our members.

This year the Rt Hon Chris Huhne MP, Secretary of State, DECC, was our invited guest and he spoke for 10-15 minutes outlining the Government's commitment to developing CCS and emphasised the importance of the first four UK projects to this goal. He congratulated UK industry for its seven entries out of a total of thirteen CCS projects that have been forwarded for funding assessment under the European demonstration programme. He also thanked the CCSA for its support in helping to put the UK in a leading role in the world in CCS.

The picture below shows Chris Huhne MP, Gardiner Hill, Chairman of the CCSA and Jeff Chapman, CEO of the CCSA.



International News

The Role of Earth Observation in Carbon Capture and Storage

22 June - During the last two years the European Space Agency (ESA) has funded a project aimed at establishing a 'service concept' that could be applied to monitoring CO₂ capture and storage facilities. One of the biggest challenges facing the CCS industry is demonstrating that CO₂ capture and storage is safe, effective and can be achieved at industrial scale at a competitive cost.

To read the [article](#)

CO₂CRC tests new CO₂ capture technology

21 June - The Cooperative Research Centre for Greenhouse Gas Technologies (CO₂CRC) is developing an innovative system for capturing carbon dioxide from power stations following a grant from Brown Coal Innovation Australia.

A computer model of the process to facilitate scale-up, along with large-scale designs and costs for equipment items, with the aim of making the system 'power station ready' will be developed.

To read the [article](#)

Carbon capture and storage heavyweights form alliance

20 June - The research institutes SINTEF in Norway, TNO in the Netherlands and IFP Energies nouvelles (IFPEN) in France are joining forces in the newly established "Tri4CCS Alliance", which aims to make the capture, transport and storage of CO₂ (CCS) safer and more cost-effective.

The three institutes are supporting the efforts of energy utilities, equipment suppliers and authorities via their research and innovation efforts related to CCS - i.e. the future capture, transport and underground storage of CO₂ from fossil-fuelled power stations and process industry.

The three institutes employ a total of 450 scientists in these fields, with a R&D portfolio in CCS of some €60 million a year.

"As a group, we are large enough to tackle the scientific challenges that will emerge when in the course of a few years Europe commissions its planned demonstration and full-scale CCS plants," says alliance spokesman Dr. Nils A. Røkke, Vice President Climate Technologies, SINTEF.

To read the [article](#)

Invest to make coal clean

19 June - Only in the past few years has the energy policy debate in this country focused on improving our energy security and addressing climate change.

However, that's not enough. We need to focus our efforts on the twin challenge of how best to use resources and how to use smart investments to spark innovation that will lead to new sources of energy.

To view the [article](#)

Gasification - Vattenfall opens Buggenum IGCC CCS pilot

19 June - The CO₂ capture pilot power plant at the Vattenfall (Nuon) Willem-Alexander IGCC plant in Buggenum, the Netherlands, has been officially opened. A substantial research programme is linked to the project, involving ECN, Delft University of Technology and KEMA, with funding of 10 million euro from the Dutch government. The trials will last about two years.

The utility says "commercial reasons, such as the trend in raw material prices", have played a significant role in further postponing the investment decision on the IGCC, which have included CCS.

To read the [article](#)

Upcoming events

Carbon Management For Power Plants



June 28-29, San Francisco

As uncertainty grows around EPA and state-level regulation surrounding carbon emissions from power plants, finding strategies and technologies for complying with these regulations is becoming a top priority for power plant operators.

Because of this, the Chief Environmental Officers from America's largest power generation companies including Southern Company, Dominion Resources and Constellation Energy have joined forces to share solutions for managing power plant carbon emissions at the forthcoming Carbon Management For Power Plants 2011 Summit [<http://www.carbon-management-power-plants.com>] (9th in the Carbon Management Series) which will be taking place between June 28-29 in San Francisco.

Carbon Management For Power Plants 2011 is the only conference where senior executives from the power plant operators themselves will clarify the monetary impact that carbon emission regulations will have on utilities and explain how they are applying key technologies including CCS, IGCC, Oxy-Combustion, Underground Coal Gasification and power plant energy efficiency to cost-effectively comply with these regulations.

The event will feature 20+ senior speakers, including keynote presentations from William Tyndall, SVP Federal Policy & Environment, Duke Energy, Gary Spitznogle, Director New Technology & Policy, American Electric Power and Pamela Faggert, VP & Chief Environmental Officer, Dominion Resources, three of the US's most prolific electric generating operators. Peabody Energy has already signed up to sponsor the event.

For further information visit www.carbon-management-power-plants.com where the full agenda and PDF brochure is now available.

This will be an unrivalled opportunity to learn how leading power plant operators are rising to the challenge of reducing their emissions and to be part of the next-generation of power plant carbon reduction partnerships as they are formed.

Confirmed Speakers Include:

- * Chris Hobson, Senior Vice President Research & Environmental Affairs, Southern Energy
- * William Tyndall, Senior Vice President Federal Policy & Environment, Duke Energy
- * Pamela Faggert, VP & Chief Environmental Officer, Dominion Resources

- * Paul Allen, SVP Corporate Affairs & Environmental Officer, Constellation Energy
- * Joseph Dominguez, Senior Vice President Federal Regulatory Affairs, Exelon Corporation
- * Frederick Palmer, Senior Vice President Government Relations, Peabody Energy
- * Bo Diczfalusy, Director Sustainable Energy Policy & Technology, International Energy Association
- * Gary Spitznogle, Director New Technology and Policy, American Electric Power
- * Brannen McElmurray, Director Environmental Commodities, NRG Energy
- * David Hinchey, Senior Environmental Engineer, Public Service Electric & Gas Company
- * Dave Hill, PE, PG Engineer Specialist, Oil & Gas Division, Carbon Capture & Sequestration Program, Railroad Commission of Texas
- * Mike McInnes, SVP Production, Tri-State
- * Thor Hinckley, Manager Renewable Power Program, Portland General Electric
- * Alan Borrowman, Director, BCG Energy

Register Now to Save \$400 plus 15% Discount

Registrations received before May 6, 2011 will receive a \$400 discount plus the 15% for being a Member or contact of the CCSA.

Claim this discount and reserve your place early to ensure you don't miss out. To register, or for further information, please call 1-800-721-3915 or email info@american-business-conferences.com.

We look forward to welcoming you to Carbon Management For Power Plants 2011, San Francisco in June.

Jane Thomas
Director
American Business Conferences
T: 800-721-3915



30 August - 1 September 2011
Rendezvous Hotel
Melbourne, Australia

Carbon capture and storage represents the future of Australia's energy and resources, and Carbon Capture and Storage World 2011 is the path to that future. With a specific focus on the steps towards the commercial implementation of CCS Carbon Capture and Storage World 2011 is the must attend event for generators, primary industries and government.

At Carbon Capture and Storage World 2011 you'll hear:

- How to manage financing between public and private sources from the Global CCS Institute
- How CCS is progressing in the Middle East and Northern Africa from the Emirates National Oil Company
- How a price on carbon could affect CCS in Australia from the Department of Climate Change

- How to implement storage strategies like the Wandoan Project (CTSCo)
- Case studies from national CCS projects including Loy Yang Power, International Power Hazelwood and CarbonNet
- Recent developments on CCS projects in the USA and globally from the World Resources Institute
- Leading research into technologies for CCS through our Technical Showcase

Join us at Carbon Capture and Storage World 2011 to learn, network and discuss the future of this important technology. Partnerships, investment and collaboration are all fundamental to the advancement of CCS nationally and across the globe, have your say and develop your business in just three days.

Alongside the two day conference make sure you don't miss out on the pre-conference site visit to Loy Yang Power and International Power Hazelwood where you can see two different CCS projects in operation. Don't miss this must attend event for anyone involved with CCS.

Visit our website for more information:

www.terrappinn.com/carbon

****CCSA Members receive a 15% discount****



CCSA members save 15%
Easy ways to register:
Online: www.eeevents.co.uk
Email: delegate@eeevents.co.uk
Fax: +44 (0) 207 881 2889

2nd Annual
CCS 11
Financing the future of CCS

22-23 September 11
One Drummond Gate
Victoria, London
Conference &
Exhibition

Our 2nd annual event will unite key players from across the CCS industry, both from private and public sectors, tackling key issues facing the development of the CCS market. Focus will be paid to National and International CCS policy, mobilisation and allocation of public and private funds. Although offering an insight into capture technologies and processes, this year's event will provide a focused analysis of the challenges facing transportation and storage of CO₂.

Moving away from generic CCS discussions, our 2nd annual event will highlight the bankability of CCS projects for private investors, including expert scrutiny of risks and challenges from a range of international professionals.

The event will address the key issues facing the future financing of CCS:

- CCS and its role in the future energy mix
- National and EU policy
- Allocation of public financing
- Mobilising private sector financing
- Securing public support
- Developing CO₂ transport infrastructure
- CO₂ storage and future security
- The future outlook of CCS, a postgraduate perspective

E.E.L Events is proud to present our 2nd annual CCS conference. Whether you're looking to enhance your presence

in the CCS market, investing in CCS projects or want to find out about the future of CCS, this event ensures you meet the leading players in the CCS industry.

Book your place now and benefit from our Super Early Bird discount of £500.

CCSA members receive a further 15% discount!!

Contact tom.popple@eeevents.co.uk for more information

Carbon Capture and Storage - the Leading Edge



**CARBON CAPTURE AND STORAGE:
THE LEADING EDGE**

19-20 October 2011

Institution of Mechanical Engineers, London

Book now or for further details:

www.imeche.org/events/S1606

******CALL FOR PAPERS DEADLINE 4 APRIL 2011******

This two-day seminar will present on the leading edge of carbon capture technology. Key industry leaders will cover the latest position and the implications across the regulatory, financial and process technology spectra.

The following areas will be covered:

- The Implications of the Electricity Market Reform on CCS projects
- An update on the legal issues surrounding the developing market
- Have the latest EU & UK Government decisions been more encouraging to CCS
- CCS is not just an energy process it is also a means of industrial capture of CO₂ (carbon recycling)
- How do the various energy production platforms deliver on energy security and environmental friendliness
- How good design can make CCS as safe as any other process option
- The properties of CO₂, by products such as amines and contaminants
- The EU competition
- An update for the leading edge projects across the globe
- FEED Case Studies, especially related to capture technologies

Who should attend

Ideal opportunity for specialist designers, plant owners, operators, investors, financial advisers, insurers and policymakers

Enquiries: Taz Khatun, Events Executive, Engineering programme, Institution of Mechanical Engineers, Tel: 020 7973 1306 Email: t_khatun@imeche.org

**** Discount for CCSA Members ****

The Carbon Show



the **CARBON** *show*

The Carbon Show 2011 will take place on Thursday 20 October and Friday 21 October at the Business Design Centre in London.

Now in its third year, The Carbon Show continues to grow and 2011 will see the show expand its international focus, with in-depth features on energy efficiency and carbon markets and activity in Europe.

Last year's show saw over 1,700 participants meet to discuss issues in carbon management, reduction and trading. The event included a seminar programme with top-level speakers, exhibitors from key industry organisations and unrivalled networking opportunities.

Visit www.thecarbonshow.com for details.