



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

UK Energy Bill Receives Royal Assent

9 April 10 - The UK Energy Bill has received Royal Assent to become the Energy Act 2010. Surviving the political wash-up process before the general election, the Act includes a new financial incentive to enable the construction of four commercial scale CCS projects on coal-fired power stations, as well as support for CCS retrofit on those projects if required in future. View the final text of the [Energy Act 2010](#).

Manchester Power Plant Receives Green Light

9 April 10 - A 1520MW CCGT plant in Manchester has been given government permission to go ahead with attached carbon capture readiness conditions. Wainstones Energy, which owns the Carrington power plant, will have to set out how the plant will fit CCS equipment. The plant is due to be completed by 2013. View the [full story](#).

UK Political Parties Launch Election Manifestos

12-14 April 10 - The three main UK political parties; Labour, Conservatives and Liberal Democrats, have launched their election manifestos, setting out their political vision for a new government after the general election. Policies on low-carbon energy and climate change (including CCS) feature in all three manifestos. View the [Labour](#), [Conservative](#) and [Liberal Democrats](#) manifestos.

Irish Study Confirms Carbon Storage Capacity

9 April 10 - Providence Resources plc has published an update on its Ulysses study into the gas storage and carbon sequestration potential of the Kish Bank Basin in offshore eastern Ireland. The study confirms that the basin could contain a CO₂ storage capacity of approximately 270 million tonnes. View the [press release](#).

International News

Californian Companies Create Coalition on CCS

8 April 10 - A number of CCS interested companies have launched the California CCS Coalition, which will represent the views of its stakeholders in legislative, regulatory and public forums. The Coalition includes Chevron, Sempra Energy Utilities, Southern California Edison, Shell and the Western States Petroleum Association. View the [full story](#).

European Climate Foundation Launches Low-Carbon Europe Roadmap

13 April 10 - The European Climate Foundation (ECF) have published a report setting out a roadmap for the EU to reduce GHG emissions by 80-95% by 2050. Roadmap 2050 looks at the opportunities for achieving a European zero-carbon power sector and through several different decarbonisation scenarios, concludes that achieving zero carbon power generation in Europe by 2050, is technically and economically feasible. In particular, the report notes that in each of the three main pathways, CCS will be required on power generation to a greater or lesser extent, and all scenarios require CCS to abate industrial emissions (steel, refining, chemicals and cement). View the [full report](#).

Study Finds Large CO₂ Storage Potential in Alberta

13 April 10 - A joint Canadian government and industry funded study has found that central Alberta in Canada holds the possibility for large amounts of CO₂ storage in geological formations. Using geological, seismic and other data, the Wabamun Area CO₂ Sequestration Project (WASP) feasibility study has concluded that there is the potential to store more than 500 million tonnes of CO₂ in an area of 5,000 square km, which would be sufficient to mitigate half of Alberta's coal-fired power stations emissions for 30 years. View the [full story](#) and the [study](#).

Alabama's Barry CCS Power Plant Breaks Ground

14 April 10 - A groundbreaking ceremony has taken place for the Alabama Barry CCS demonstration plant in the US. Alabama Power, whose parent company is Southern Company, has partnered with the US DoE, Electric Power Research Institute and Mitsubishi Heavy Industries Ltd, amongst others, to build this project, which will be the largest in the world to be connected to a pulverised coal-fired power plant. The project will create up to 50 construction jobs as well as up to 15 full-time jobs during the life of the project from the capture and compression plant. View the [press release](#).

CCSA News

New CCSA members

The CCSA is delighted to welcome the following new members of the Association:

- [Carbonet](#)

Upcoming events

IGCC Outlook China 2010



IGCC Outlook China 2010 - Uncovering the Growth Area and the Challenges Faced in IGCC and CCS Development

April 15-16th, 2010

Shanghai Ramada Plaza, China

IGCC Outlook China 2010 is the premier networking & information exchange platform specializing in the Chinese IGCC development. The conference will be convening 150+ top professionals from global IGCC fraternity including regulators, power generation companies, coal/coal chemical enterprises, energy producers and equipment & technology suppliers, etc.

Conference Highlights

How to commercialize the IGCC power plants in spite of the high cost?

Is the poly-generation of electricity, chemicals and fuels the optimal business model to operate the IGCC power plants?

What can we learn from the demo plants across China?

How is the current status of the Chinese key IGCC equipments?

What are its for implications various market players?

What make up the challenges of constructing and commercializing the IGCC + CCS power plant? How will be the future landscape?

Conference content concerned about:

- the Chinese IGCC development blueprint in the 12th 5-year plan
- the optimal business model for the commercialization of IGCC power plants
- the key considerations in the integration of IGCC with CCS
- the international cooperation in terms of key equipment and solutions

For the further information, please contact:

Rusty Yan

Tel: 86-21-5181 5397

Fax: 86-21-5180 9518

Email: rusty@igvision.com

Website: <http://www.igccchina.com>

CCS Association members can have 15-20% discount on the registration fees.

SMI Gasification



Name: Gasification

Dates 19-20 April 2010

Location: Crowne Plaza St James London

Contact Telephone, +44 (0)20 7827 6180

Email : mszymaniak@smi-online.co.uk

URL: www.smi-online.co.uk/2010gasification5.asp

Covering a wide range of industry driven topics such as the latest UCG and IGCC developments, Gasification 2010 will also be uncovering some newer trends including biomass gasification and niche technologies within the field. Featuring speakers from key projects around the world and providing in-depth analysis of the issues facing the sector, this comprehensive conference provides essential information for the coal and power industries.

Sharing their knowledge in 2010?

Gain some exclusive insights from the likes of:

- Jim Childress, Executive Director, Gasification Technologies Council
- Dr. Len Walker, Managing Director, Cougar Energy Ltd
- Dr. Steffen Weil, Researcher, Gasification Group, RWE Power AG
- Michael Gibbons, Director, Powerfuel Plc

PLUS: CCSA members can save £100 off the conference registration fee. For more information please contact [Marta Szymaniak](#), quoting ref: CCSA

The Inaugural CO₂ Shipping Conference



6 - 7 May 2010, London

The first event to focus on the potential for CO₂ as a new gas carrier cargo, the technical challenges and supply chain development

"Shipping CO₂ in tanker vessels is a cost efficient and flexible way to get CO₂ from power plants to offshore storage sites, which makes it a suitable solution for large CO₂ emission sources such as coal-fired power plants, especially in the emerging phase of CCS" Soren Skou, Partner & CEO of Maersk Tankers, and member of A.P. Moller - Maersk Groups Executive Board.

World class speakers confirmed for a cutting edge two-day programme include:

Klaas Kersemakers, Anthony Veder
Yannis Calogeras, Bureau Veritas

Jeff Chapman, Carbon Capture and Storage Association
 B Y Yoo, DSME
 Chris Bolesta, European Commission
 Joonas Rauramo, Fortum Power
 Helen Ekerholt, Lorentzen & Stemoco
 Anders Bradt Schulze, Maersk Tankers
 Jim Ward, National Grid
 Per Arne Nilsson, Panaware AB
 Bjorn Munko, TGE Gas Marine

CCSA members are entitled to a 10% discount - please quote CCSA-001

For the provisional conference programme and more information [click here](#)

ACI's 2nd Annual Carbon Capture & Storage Summit



ACI's 2nd Annual Carbon Capture & Storage summit taking place on 19th and 20th May 2010 in Berlin (Germany) will bring together leading CCS experts from the oil & gas, power generation, utility technology providers and academia around the world to look at current projects and discuss the key challenges and opportunities for commercialisation.

The event will be held in Berlin which will include a site visit to CO2SINK.

The Key Topics include

- EU & Member State Policies on CCS
- The Impact of Copenhagen Agreements on CCS Deployment
- Achieving Societal Acceptance
- Panel Discussion: Engaging with the Public
- Round Table Discussion: CCS Legal & Regulatory Frameworks
- Case Study Examples of CCS Projects Around the Globe
- Breaking Down the Cost Barrier
- Funding Options for CCS Projects: An Investor's Viewpoint
- Key Issues Relating to the Transportation of CO2
- Evaluation & Detailed Comparison of Available Capture Technologies

2009 Speakers included

Sacha Lüdge, R&D Deputy Project Manager, Vattenfall
 Dr Michael Stephenson, Head of Science, British Geological Survey
 Giles Dickson, Director Government Relations in Europe, ALSTOM
 Brendan Beck, Energy Analyst, IEA
 Dr Stephen Brown, Sustainable Development Manager, Yorkshire Forward

The main aim of this event is to showcase the most advanced technologies and the latest funding options to really drive CCS forward.

CCSA members are eligible for a discount on the conference fee. To get a full brochure or to register, please contact Justyna Korfanty on +44 (0) 207 981 2503 or jkorfanty@acieu.net

“Opportunities in Carbon Capture & Storage” Metals and Engineering Applications in Power Generation



25 May 2010, Harrogate International Centre, UK

Carbon Capture and Storage is a relatively new concept generally using existing technologies. However, many companies that could provide products and services to the CCS projects have little knowledge about the technology and the potential opportunities which arise.

Therefore this one day Conference will provide an overview of the CCS technologies that are under development, the implications for existing power plant, and highlight the impact of these technologies on the development of distribution and injection technologies.

The presentations will highlight the key material and engineering challenges, and provide an insight into the opportunities presented to the Metals and Engineering Supply Chain by the emergence of CCS technologies.

The Hatfield project is the first in the UK and has EU funding of £160m. Site work has commenced and the power station will be operational with natural gas in 2012, with coal gasification being operational by 2013. This will be the world's first large scale integrated gasification combined cycle (IGCC) power station.

Four plants are planned to be built in the UK with UK government support. Five projects across Europe are being funded by the European commission.

The delegate cost is £250 plus vat which includes complimentary car parking and lunch. SMF/TIG Members are £75 plus vat and students are £150 plus vat. **CCSA members are entitled to a 10% discount.**

Places are likely to be in demand for this event.

Book now at: www.namtec.co.uk

Sponsorship packages, which include exhibition space, are available from £500 plus vat. Email david.stafford@namtec.co.uk for details.

Agenda:

Opportunities and material challenges - Dr. Jeff Chapman. CCSA

Overview of Technologies for Pulverised Coal - Oxyfuel and PCC - Dr. Mike Farley, Doosan Babcock

Pre-combustion Technology and Carbon Capture - A Key Technology for a Low Carbon Economy - Terry Raddings, GE Energy

Impact of oxyfuel operation on materials corrosion - Colin Davis, E.on

Amine scrubbing: Implications for materials and coatings - Jeremy Mansfield, Doosan Babcock

Overview of materials Issues in CCS - Dr. Kumar Patchigolla, Cranfield University

CO2 pipeline materials issues - Dr. Julia Race, Newcastle University

CO₂ Transportation Infrastructure - the key to establishing a region wide CCS cluster - Dr. Stephen Brown, CO₂sense

Geological Storage of CO₂: Principles and Options - David Hughes, Senergy

Hatfield: a case study - Grant Budge, Powerfuel

New Build Europe 2010



New Build Europe 2010, 26-27 May, Düsseldorf, will provide a platform for you to discover upcoming technologies and effectively shape your project development/management strategies.

This conference will encompass power plant efficiency, profitability and the challenges of effective operation and show you how they affect your business strategy. It will also focus on clarifying investment and lifespan issues, particularly with coal plants and show how to integrate fossil and renewable energy in the long-term.

Key speakers include:

- Thomas Dalsgaard, Vice President Power, **DONG ENERGY**
- Grant Budge, Director, **POWERFUEL POWER**
- Francisco García Peña, Engineering R&D Manager, **ELCOGAS**
- Bruno Kuckartz, Director, **TÜV RHEINLAND INDUSTRY SERVICES**
- Andrew Neville, Head of Conventional Thermal, **ALPIQ SUISSE**
- John Topper, Managing Director, **IEA CLEAN COAL CENTRE**

Uncover the following key topics during the event:

- Optimising fossil power plant flexibility: what utilities expect and what engineering companies develop to meet the market's needs
- Increasing profitability of a new build project
- Learning from projects on ultra-critical, biomass, CHP and CCPP power plants
- Leveraging experiences on quality and supplier management
- Assessing the future of fossil power plants in interaction with renewable energy

See the full programme - Network with the key industry Project Directors and uncover the lessons of 11 industry case studies of Europe's turnkey thermal power plant developments

CCSA members are entitled to a 10% discount please quote CCSA10% when registering

Register now at:

www.arena-international.com/newbuild/register.asp

Climate change: Impacts and Opportunities



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

celebrating
175
years

British Geological Survey, Keyworth, Nottingham

16-17 June 2010

£55 (inc. VAT. This fee covers refreshments, lunches and evening buffet reception)

Some amount of climate change is now inevitable. Governments at all levels and environmental industries recognise that increasing investment in resources will be required to adapt to climate change i.e. sustainable and economically efficient adaptation.

However, adaptation requires that we properly understand the scope of climate change impact – it goes beyond a rise in temperature or a change in precipitation – and that we understand the potentially non-linear sensitivity of both urban and natural environments to climate change.

Climate change also brings challenges and opportunities in the energy sector, all of which are inextricably tied to environmental impact and legislated mitigation efforts.

This conference will tackle these issues, highlighting both the scope of climate change impact, strategies for adaptation, as well as opportunities available to environmental industries and regional governments. The conference will also giving participants a voice through extended Q&A sessions and panelled discussions.

Speakers include:

- Professor Anne Glover – Chief Scientific Adviser for Scotland
- Dr Chris West – Director, UK Climate Impacts Programme
- Professor Andrew Gouldson – Director, ESRC Centre for Climate Change Economics & Policy
- Mr Chris Murray – Director, UK Transmission, National Grid
- Dr Stephen Brown – Director, Carbon Capture and Storage CO₂ Sense Yorkshire
- Professor Mercedes Maroto-Valer – Director of the Centre for Innovation in Carbon Capture and Storage, Nottingham University
- Professor Dermot Roddy – Science City Professor of Energy, University of Newcastle
- Mr Rowan Douglas – Chairman, Willis Research Network, Willis Group Limited
- BGS experts on climate change, carbon capture and storage, groundwater flooding, land use and development, ground conditions, ground stability, health and ground source heat pumps

Details of the provisional programme and registration form can be viewed and downloaded from

<http://www.bgs.ac.uk/climateconference/home.html>

Carbon Capture & Storage World Australia 2010



21 - 23 June 2010, Crown Conference Centre, Melbourne, Australia

Policy, investment, projects and partnerships for government and primary industries

Carbon Capture and Storage World Australia 2010 is a strategic forum for generators, coal and gas executives addressing the roadmap for the commercialization of CCS. Its focus is on deploying CCS within a wider portfolio of carbon reduction strategies.

You will hear global case studies from Canada, Japan, Italy, India and the US. Covering the key topics and the tough questions, these studies will explore commercialisation, policy settings, leadership and the financing models set up to make carbon capture and storage a reality.

The BIG hitters addressing the conference include:

- Sandra Locke, Executive Director CCS Policy Development, Alberta Energy
- Vanessa Guthrie, Vice President - Sustainable Development, Woodside
- Pietro Barbucci, Manager of Fossil Fuels - Research and Development, ENEL SpA
- Chris Raine, President and Managing Director, Alstom Australia & NZ
- Graeme York, CEO, International Power Hazelwood
- Dr Peter Cook, CEO, Otway Project
- Donald Woodrow, Carbon Strategy Manager, CS Energy
- Ralph Hillman, Executive Director, Australian Coal Association
- Richard Aldous, Deputy Secretary Energy and Earth Resources, Victorian Government
- Crispin Walker, CCS Projects Manager, Global CCS Institute
- S. K. Saini, Head of RM & A, North Delhi Power Limited
- Geoff Gay, Senior Manager Corporate Strategy & Development, TRUenergy

Key topics to be explored:

- Supporting a future for fossil fuelled generation through retrofitting technology
- Global and Australian case studies demonstrating CCS pilot and commercial projects, including ZeroGen, Otway, Longannet, Porto Tolle
- Expertise in storage site exploration and management
- Government funding and PPP's to advance CCS innovation and deployment
- Carbon pricing mechanisms and impacts
- Setting a precedent now for future relationships, projects and funding

The need to develop a viable plan for the up take of carbon capture and storage is a truly global initiative. Therefore a cooperative approach between nations is crucial to making this a reality as quickly as possible. Carbon Capture and Storage World Australia 2010 brings the world to you!

Workshops: The Pre-Conference Workshops on Monday 21 June, will cover the important issues of carbon capture and storage site selection and detailing the economics of carbon capture and storage technology, these workshops are an ideal way to arm yourself with the tools needed to make significant operational changes in your organisation.

Special Discount for CCSA Members

Register <https://secure.terrapinn.com.au/V5/rCalc.aspx?E=3407> online and quote voucher code CCSA or Email cs.au@terrapinn.com and quote ccsa

For more information go to <http://www.terrapinn.com/2010/ccs>