



Carbon Capture & Storage Association

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CCSA Weekly Newsletter

Page 1	Page 2	Page 3	Page 4	Page 5
leadlines	International News Upcoming Events	Upcoming Events	Upcoming Events	Upcoming Events

International News

- US Recovery Act funding awarded
- Norway delays decision on Mongstad
- Sasol buys stake in the Technology Centre Mongstad
- European Parliament Environment Committee votes on EPS
- CO2CRC releases new video

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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International News

US Recovery Act funding awarded

29 April 2010 - The US Department of Energy has announced the award of \$106 million of Recovery Act funding for 37 research projects, through the department's Advanced Research Projects Agency-Energy (ARPA-E). There are a number of awards in the category of 'Innovative Materials & Processes for Advanced Carbon Capture Technologies', including a GE Global Research Center project to research CO₂ capture using phase-changing absorbents has received a grant of \$3 million. View the [press release](#).

Norway delays decision on Mongstad

2 May 2010 - Norway has said that it will delay a decision to finance the Mongstad CCS project. The Ministry of Petroleum and Energy now expects to present a proposition for an investment decision to Parliament in 2014. Minister Terje Riis-Johansen said: "Given the big challenges we are facing in making the project good enough on an industrial scale, I don't think it is defensible to plan for an investment decision before 2014." View the [press release](#) and the [full story](#).

Sasol buys stake in the Technology Centre Mongstad

3 May 2010 - Sasol, the South African energy company, and Gassnova SF (on behalf of the Norwegian Ministry of Petroleum and Energy) have signed an agreement on partnership in the CO₂ Technology Centre Mongstad (TCM). Sasol is purchasing a 2.44 percent share of TCM. View the [press release](#).

European Parliament Environment Committee votes on EPS

4 May 2010 - The European Parliament's Environment Committee has voted to allow national CO₂ emission performance standards (EPS) for power plants, as part of the forthcoming EU Industrial Emissions Directive. MEPs want the Commission to assess the need for EU-wide minimum requirements for emission limit values. A legislative proposal on this should follow from the Commission. Parliament's plenary vote is scheduled for July. View the [press release](#) and the [full story](#).

CO2CRC releases new video

6 May 2010 - The Cooperative Research Centre for Greenhouse Gas Technologies (CO2CRC) has released a new video on its CCS demonstration projects. The video, *Carbon Capture in Action*, describes the projects and shows how the different capture technologies used work. View the [press release](#).

Upcoming events

Carbon Capture and Storage Series webinar

18, 19 May 2010

1500 GMT +1 - 1700 GMT+1

Making CCS commercially viable is at the forefront of the global agenda. Making CCS technology available in the short term is must to meet European targets of reducing CO₂ emissions. This webinar will provide a platform to discuss technology innovation, review opportunities in changing regulatory environment and explore future projects and challenges in bringing CCS is in to action. Hear from key industry players and authorities exploring the following topics

- . Technology insight and global initiatives
- . Future opportunity in transportation within the value chain
- . Policy update and impact on the commercialization of the industry
- . Operator best practice and future projects

Key Speaker -

Jeff Chapman, Chief Executive, CCS Association

Dr Keith Burnhard, Senior Technology Specialist, International Energy Agency

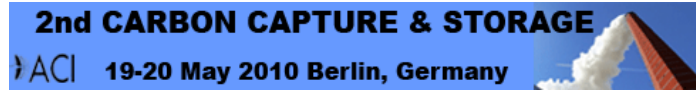
Hank Pagnier, Head of Department, Sustainable Geo-Energy, TNO

Iain Wright, CO₂ Project Manager, BP Alternative Energy

Register for free here:

<http://www.innoconsys.com/CleanTech/CleanTech-Webinar-Series.aspx>

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, Senenergy

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 C02 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>

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.