



**Carbon Capture & Storage Association**

Issue No. 109  
Week 3, 21 April 2011

# CCSA Weekly Newsletter

Page 1	Page 2	Page 3	Page 4	Page 5	Page 6
Headlines	UK News International News Reports	Upcoming Events	Upcoming Events	Upcoming Events	Upcoming Events

## UK News

One of the key pledges under energy /environment in the Scottish National Party Manifesto for the 2011 Scottish Parliament election is:O2 Pipeline Design Study in England

## International News

APEC Request for Proposal on permitting proposal on 'permitting issues related to CCS'

EU storage guidance documents issued

Collaboration for a clean energy future by Energy Ministers at the CEM

## Reports

CCP 2010 Annual Report Published

ICO2N Report Release: Conducting cost analyses of CO2 capture technologies

## 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](mailto:info@ccsassociation.org)

For more information about the CCSA please visit our website: [www.ccsassociation.org](http://www.ccsassociation.org)

To be considered by the Board for Membership please contact:

Pamela Rudolph  
[pamela.rudolph@ccsassociation.org](mailto:pamela.rudolph@ccsassociation.org)

## UK News

### One of the key pledges under energy /environment in the Scottish National Party Manifesto for the 2011 Scottish Parliament election is:

14 April - New coal-fired stations must demonstrate carbon capture and storage on at least 300 MW of its capacity from day one and retro-fitting for those stations by no later than 2025, with 100% CCS expected on new builds from 2020

To read all [key pledges](#)

## International News

### APEC Request for Proposal on permitting proposal on 'permitting issues related to CCS'

19 April - The Secretariat of APEC has released, on behalf of the Expert Group on Clean Fossil Energy, a Request for Proposal on 'Permitting Issues Related to Carbon Capture and Storage for Coal-based Power Plant Project in Developing APEC Economies.

The project will review current activities regarding legal, regulatory and permitting aspects of CCS implementation in national administrations and international bodies. It will identify issues likely to arise if they were to be applied to future CCS projects in APEC economies.

To read the [story](#)

### EU storage guidance documents issued

15 April - The EU has issued the final non-binding guidance documents for Member States' implementation of the carbon dioxide storage directive which Bellona believes show significant improvements on earlier drafts.

To read the story: [story](#)

### Collaboration for a clean energy future by Energy Ministers at the CEM

13 April - Australia Minister for Resources and Energy, Martin Ferguson, said that with 75% of Australia's electricity currently coming from coal-fired power, breakthroughs in carbon capture and storage technology would be of particular importance to Australia.

To read the [story](#)

## Reports

### CCP 2010 Annual Report Published

21 April - The CO2 Capture Project (CCP), a partnership of seven major energy companies working to advance CO2 capture and storage (CCS), has published its 2010 Annual Report. The report provides an overview of the group's work to develop next generation technologies and improve understanding to make CCS a practical and cost-effective option for reducing CO2 emissions from fossil fuels.

The annual report covers the first full year of activity in Phase Three (CCP2) which is scheduled to run until 2013. This phase will see at least two field demonstrations of capture technologies. A pilot test to capture CO2 emissions from a Fluid Catalytic Cracking unit is currently underway in Brazil, and, in Canada, an oxyfuel combustion technology to reduce CO2 emissions from once-through steam generators will follow. A series of monitoring field trials will also be undertaken during Phase Three to provide a clear understanding of how best to monitor CO2 in the subsurface.

To view the [annual report](#)

### ICO2N Report Release: Conducting cost analyses of CO2 capture technologies

18 April - The integrated CO2 Network, ICO2N, has recently released a CCS report that addresses the challenges arising when conducting a cost analysis of CO2 capture technologies. The report offers recommendations on how to ensure cost analyses are as robust as possible, and are truly comparable and contrastable to other cost analyses.

Full [report and press release](#)

## Upcoming events

### The Tenth Annual Carbon Capture & Sequestration Conference

2-5 May 2011

David L. Lawrence Convention Center, Pittsburgh, PA

Anthony Cugini, Director, National Energy Technology Laboratory, U.S. Dept. of Energy and Michael G. Morris, Chairman & CEO, American Electrical Power kick off the the Tenth Annual CCS Conference. They will be joined by prominent decisionmakers and experts from around the world. Based on past experience, the conference is expected to draw an audience of around 800 from the major companies and organizations involved with CCS. The program includes presentations from key government & industry decisionmakers from the U.S., Canada, and China along with 300 technical papers from leading experts around the world. To review the a [agenda and register](#)

### The European CCS Demonstration Network

A Year of Knowledge Sharing: Sowing the first seeds

10 May 2011

Rotterdam, The Netherlands

The European CCS Demonstration Project Network is delighted to announce its 2011 networking and dissemination event, open to all CCS stakeholders free of charge.

A chance to learn about the major CCS demonstration projects in Europe

The event will feature presentations on project progress, lessons learned and the challenges faced by the 6 large-scale demonstration projects in the CCS Project Network:

- Belchatów, Poland
- Compostilla, Spain
- Hatfield, UK
- Jämschwalde, Germany
- Porto Tolle, Italy
- ROAD, Netherlands

[Find out more](#)

### 3rd Carbon Capture & Storage Summit



18th & 19th May 2011, Bari, Italy

Contact Telephone: +44 (0) 207 981 2503

Contact E-mail: [jkorfanty@acieu.net](mailto:jkorfanty@acieu.net)

Website: [www.wplgroup.com/aci/conferences/eu-ecc3.asp](http://www.wplgroup.com/aci/conferences/eu-ecc3.asp)

CCS: Cost, Commercialisation & Societal Acceptance

Cost is the keyword at present. Where is the money coming from to support the development of CCS? What are the costs associated with capture, transportation and storage and how can these best be managed? What and where is the value of CO<sub>2</sub>?

The 3rd Annual Carbon Capture & Storage Summit taking place in Bari, Italy, on 18-19 May 2011 will retain its in-depth insights into all the latest political and technological developments for which it is renowned, assessing carbon capture progress within other industries such as steel, refining and cement as well as continuing the debate on public acceptance.

#### Confirmed speakers form:

ENDESA, E.ON, UNIDO, China Huaneng, ENEL, Climate Policy Initiative, EU Commission, Baker & McKenzie, CO<sub>2</sub>DeepStore, ALSTOM Power, PEMEX-Petroquimica, Senergy AE, Vattenfall, Eunomia Research And Consulting, European Investment Bank, Shell and many more

#### Key Topics:

- Pre-commercial governmental support for CCS: a focus on incentives and funding at regional and national level
- CCS economics across the entire chain: capture, transportation and storage: costs and cost drivers
- Capture project case studies from the power and other industries including refining, steel production and cement companies
- Opportunities and barriers for CO<sub>2</sub> transportation: pipelines vs. shipping
- Onshore vs. offshore CO<sub>2</sub> storage: public acceptance vs. cost?
- Assessing the value of CO<sub>2</sub> in different uses and markets: algae in carbon capture, EOR & CO<sub>2</sub> for fuel
- What can be learned from progress in CCS projects in other regions of the world?

**Highlight of the event:** Exclusive site visit to ENEL's CO<sub>2</sub> Capture Pilot Plant in Brindisi on Tuesday 17th May 2011 (Numbers for the visit are strictly limited. Pre-registration required)

\*Special discount for CCSA Members\*:

To claim it please contact Justyna on email: [jkorfanty@acieu.net](mailto:jkorfanty@acieu.net) or tel.: +44 (0) 20 7981 2503 quoting ref.: MPCCSAECC3

### 2011 World Coal Gen Conference



*The Roadmap to 100% Thermal Efficiency and Zero Emission*

2011.5.17-19, Beijing, P.R. China

The world coal generation industry has been, for long, in search of new methods that lead to further improved thermal efficiency and reduced emissions. Today, many technological roadmaps have appeared and presented new hopes for getting closer to this target, which cover wide areas such as combustion techniques, coal gasification, ultra supercritical steam condition technologies as well as flue gas treatment, water management, new materials and the way to optimize plant operation ... As the 18th Global Energy Dialogue event, 2011 World Coal Gen Conference: The Roadmap to 100%

Thermal Efficiency and Zero Emission will discuss these technology frontiers via following forums:

- Forum 1: World Coal-fired Power Generation Prospects 2011 - 2061
- Forum 2: Coal Pretreatments - Gasification vs. PC
- Forum 3: Project Practice with Latest Coal Pretreatment Techniques
- Forum 4: Higher Efficient Combustion Techniques and System
- Forum 5: Project Practice with Latest Combustion Techniques
- Forum 6: Flue Gas Treatment and Ash Handling
- Forum 7: CO<sub>2</sub> Emissions Control in Coal Power Plant
- Forum 8: Advanced Water & Steam Technologies
- Forum 9: Designing Ultra Supercritical Coal Generation Units
- Forum 10: Material & Engineering for Next Generation Power Plants
- Forum 11: Power Plant Operation and Maintenance

To help participants to further understand the latest updates of worldwide featured coal-fired power generation projects, 2011 Directory of Global Featured IGCC, CFB and Ultra-critical Power Generation Projects is published as one of the event publications. Please refer to the website for further information: [www.worldcoalgen.org](http://www.worldcoalgen.org)

**Conference Contact:**  
18<sup>th</sup> Global Energy Dialogue  
2011 World Coal Gen Conference: The Roadmap to 100% Thermal Efficiency and Zero Emission  
Mr. Anson Zhu  
Tel: (0086 21) 6652 3700 - 3688  
Fax: (0086 21) 6652 3733  
Email: [anson.zhu@araworldwide.com](mailto:anson.zhu@araworldwide.com)  
Website: [www.worldcoalgen.org](http://www.worldcoalgen.org)

## CCS Research & Development to Implementation

24 - 26 May, London, United Kingdom

3rd European Conference on CCS Research, Development and Demonstration in association with 8th CO<sub>2</sub>NET Annual Seminar.

It is a great pleasure to invite you and your colleagues to participate in the third EU CCS conference to be held in London in the "ONE GREAT GEORGE STREET" Technical Conference Centre, Central London, England [www.onegreatgeorgestreet.com](http://www.onegreatgeorgestreet.com) on Tuesday, Wednesday, and Thursday 24, 25 and 26 May 2011. This conference series is set up by CAESAR, CESAR and DECARBit projects. These three projects are co-funded by the European Commission under the Seventh Framework Programme (FP7) and have together taken the responsibility for initiating and arranging an annual European CCS conference, establishing a forum for dissemination of project results as well as for sharing information between EU funded projects in the field. The Conference is organized in cooperation with CO<sub>2</sub>NET Europe's CCS Knowledge Sharing Network.

**Find out more:** [ccs-conference.eu](http://ccs-conference.eu)

## Gasification: The Future of Clean Power Generation



6th - 7th June  
Crowne Plaza London - The City, London, UK

Rising energy demand and concerns over security of energy supply are the driving force behind the increase in coal gasification. SMI's 3rd annual Gasification conference will bring together industry experts to share their knowledge and discuss the challenges facing the industry.

Covering a wide range of topics, including the latest UCG and IGCC developments, Gasification 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.

For the full conference programme, visit [www.smi-online.co.uk/2011gasification33.asp](http://www.smi-online.co.uk/2011gasification33.asp)

\*\*CCSA members can take advantage of a discounted rate, by quoting CCSA11 when registering with Andrew Gibbons.\*\*

To register contact: Andrew Gibbons on [agibbons@smi-online.co.uk](mailto:agibbons@smi-online.co.uk) / +44 (0)20 7827 6156

## 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](http://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 Fagert, 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](mailto: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

## 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](http://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 CO<sub>2</sub> (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 CO<sub>2</sub>, 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](mailto: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](http://www.thecarbonshow.com) for details.