



**Carbon Capture &  
Storage Association**

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# CCSA Weekly Newsletter

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'CCS will play an enormously important part in the new, rebalanced economy' says Nick Clegg MP

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Norwegian working group have signed a memorandum of understanding for utilization of up to 30,000 tonnes of CO2 for industrial use

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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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To be considered by the Board for Membership please contact:

Pamela Rudolph  
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## UK News

### NER300 CCS Application

10 February - DECC have announced that it has received nine applications in the NER competition and that they will issue more information shortly. View the [story](#).

The names of three of the applicants are [SSE](#), [Ayrshire](#) and [Alstom](#).

### SMF report explores £6.5bn CCS sector

06 February - The Special Metals Forum (SMF) in partnership with National Metals Technology Centre (NAMTEC), have launched the first ever report into Carbon Capture and Storage (CCS). View the [story](#).

### Ten Expressions of interest have been received for one of Europe's most advanced carbon-capture projects in Hatfield

08 February - Administrator for the coal mine operator Powerfuel plc has received 10 'expressions of interest' for one of Europe's most advanced carbon-capture projects in Hatfield. The company's assets include a coal mine and a project to build a power station that captures carbon dioxide from gasified coal for underground storage.

This means that one of Europe's most ambitious green energy schemes could yet go ahead creating thousands of new jobs along the supply chain. View the [story](#).

### Deputy Prime Minister's speech setting out his vision for a 'new economy'

04 February - Deputy Prime Minister, Nick Clegg MP, said today that: 'CCS will play an enormously important part in the new, rebalanced economy. It is an industry of the future; taking the best of British talents in manufacturing, engineering and research; using our natural resources; and spreading growth green, sustainable growth across all corners of the UK.'

The Deputy Prime Minister was speaking at the launch of the world's first Carbon Capture and Storage report by the National metals Technology Centre (Namtec) and the Special Metals Forum. View the [story](#).

## International News

### Norwegian working group have signed a memorandum of understanding for utilization of up to 30,000 tonnes of CO2 for industrial use

08 February - A working group from the Institute for Energy Technology (IFE), Christian Michelsen Research (CMR),

University of Bergen, Department of Chemistry, Bergen Technology Transfer AS and the regional business association Nordhordland Handverk og Industrilag (NHIL) are behind plans for an industrial utilization for up to 30,000 tonnes of CO2. View [Story](#).

## Reports

### UNIDO Report on CCS

The UN Industrial Development Organization has released a report highlighting the need to combine energy efficiency, renewables and CCS in order to cut greenhouse gas emissions. UNIDO said "Once these potentials [renewables and energy efficiency] are exhausted carbon capture and storage must come into play... This technology is rapidly evolving not only for power plants but also for a wide range of industrial applications." View the [story](#). View the [report](#).

### CCS Featured Article in China Environment Series

China Environment Series has published a featured article entitled "Advancing Carbon Capture and Sequestration in China: A Global Learning Laboratory." This article considers the investment in China in CCS to date and potential for China to lead in developing CCS technology. View the [story](#). View the [report](#).

### ECC Report on National Policy Statements for Energy

The Energy and Climate Change Committee has published its report on the revised National Policy Statements. The NPSs are designed to speed up the planning process for major energy projects and facilitate investment in renewable and low carbon technologies including CCS. One of the conclusions is that without CCS, meeting UK energy security and climate change targets would be "almost insurmountable". View the [story](#).

#### Call for proposals: Nordic user driven competence centre for realisation of carbon capture and storage

The Nordic Top-level Research Initiative announces a call for proposals to support the establishment of a Nordic User Driven Competence Centre for realisation of Carbon Capture and Storage.

The objective of the Centre is to boost innovation, joint actions and processes in the Nordic countries and to increase industry-driven innovation in CCS. This call aims for a model of cooperation based on the need for more innovation for CCS realisation within the Nordic countries. View the [call for proposals](#).

## Upcoming events

### COAL-GEN Europe



COAL-GEN Europe  
15-17 February 2011,  
Prague, Czech Republic

Location: Prague Congress Centre,  
Prague, Czech Republic

Website:  
[www.coal-gen-europe.com/index.html](http://www.coal-gen-europe.com/index.html)

COAL-GEN Europe, Europe's leading  
conference and exhibition dedicated

to the coal-based power industry, has just launched its 2011  
Pre Show Guide.

Designed to help Europe meet its 20-20-20 target of lowering  
greenhouse gas emissions, this premier annual event will take  
place from 15-17 February 2011 at Prague Congress Centre in  
Prague, Czech Republic.

With more than 50 expert speakers from around the world,  
COAL-GEN Europe is designed to deliver what you need to  
know about European coal-based energy and driving towards  
zero emissions and carbon capture and storage technologies.

Investment and networking opportunities and the chance to  
see first-hand revolutionary products and pioneering designs  
from leading exhibiting companies, makes COAL-GEN Europe  
an event not to be missed. For further information, visit,  
[www.coal-gen-europe.com](http://www.coal-gen-europe.com)

\*CCSA members are entitled to a discounted fee of €545 for  
the 3 day conference by registering for the Association Full  
Conference fee on the registration page:  
[www.pennwellregistration.com/online/LoginServlet?confId=387](http://www.pennwellregistration.com/online/LoginServlet?confId=387)

Contact Name: Sue McDermott  
Contact Tel: 44 1992 656 632  
Contact E-mail: [msuemc@pennwell.com](mailto:msuemc@pennwell.com)  
Organisers Name and URL:  
PennWell, [www.pennwell.com/index.html](http://www.pennwell.com/index.html)

View the [pre-show guide](#).

### Platts 5th Annual European Carbon Capture and Storage



*Driving CCS Forward*  
17-18 February 2011  
Grange St. Paul's Hotel - London, UK

Driving CCS Forward  
Platts *European Carbon Capture and Storage* conference has  
very much become the benchmark within the industry. It  
continues to build upon Platts global reputation for content  
quality while delivering challenging agendas at the right time

from those individuals and organisations who are leading the  
charge.

*Platts 5th Annual European Carbon Capture and Storage  
has and will continue to:*

- Attract over 450 leading professionals from 291 different organizations and 37 countries
- Showcase 25+ industry leading speakers from Europe's leading utilities, project developers, technology providers, policy makers, regulators, financiers, NGOs, and observers
- Provide an unrivalled global CCS market overview from utility plans to project challenges to legislative developments
- Present the latest in project case studies
- Offer excellent networking opportunities

2011 speakers include:

- *Charles Hendry MP, Minister of State, Department of Energy and Climate Change, UK*
- *Graeme Sweeney, Executive Vice President, Group CO2 Management, Shell*
- *Gardiner Hill, Special Advisor, CCS Technology, Policy and Regulations, BP*
- *Simon Brooks CB, Vice-President, European Investment Bank (EIB)*
- *Victor Der, Acting Assistant Secretary of Fossil Energy, US Department of Energy*
- *Bob Pegler, Senior Vice President - Europe, Global CCS Institute*
- *Juho Lipponen, Head of CCS Unit, Directorate of Sustainable Energy Policy and Technology, International Energy Agency (IEA)*
- *Martina Doppelhammer, Senior Legal and Policy Officer, Directorate-General for Climate Action, European Commission*
- *Simon Bennett, CCS Project Network Manager, Directorate-General for Energy and Transport, European Commission*
- *Arthur Lee, Fellow and Principal Advisor, Chevron*
- *Joan MacNaughton CB, Senior Vice President, Power & Environmental Policies, Alstom Power*
- *Lars Strömberg, Vice President, Chief Technology Officer and Head of Group R&D, Vattenfall*
- *Tore Andreas Torp, Advisor CO2 Storage, Statoil Research Centre Trondheim, Statoil*
- *Henk Pagnier, Head of Department, Sustainable Geo-Energy, TNO*
- *Jim Ward, Business Lead - CCS, National Grid*
- *Steven Marshall, Head of CCS Development, ScottishPower*
- *Peter Ragden, Technology Area Manager, Carbon Capture and Storage, E.ON New Build & Technology*
- *Martin Madrid, Chief Business Development Officer, ENDESA Generación*
- *Grant Budge, Director, Powerfuel*
- *Henry Derwent, Chief Executive Officer, International Emission Trading Association*
- *Tore Amundsen, Managing Director, The European CO2 Technology Centre Mongstad (TCM)*
- *Francois Kalaydjian, Director, Sustainable Development Technologies, IFP Energies Nouvelles*
- *Jeff Chapman, Chief Executive Officer, Carbon Capture and Storage Association (CCSA)*
- *Luke Warren, International Policy Executive, Carbon Capture and Storage Association (CCSA)*
- *Chris Davies, Liberal Democrat MEP for the North West of England, UK*
- *Allan Baker, Managing Director - Global Head of Power, Energy Project Finance, Société Générale Corporate & Investment Bank*

- Tony Surrridge, Senior Manager - Advanced Fossil Fuel Use, South African National Energy Research Institute; Head, South African Centre for Carbon Capture and Storage
- David Reiner, Judge Business School, University of Cambridge
- Henry Edwardes-Evans, Managing Editor, Power in Europe, Platts

CCSA members are entitled to an exclusive 15% discount off this conference fee. For more information or to register please contact Stacey Knox quoting ref PC165CCSA:

Tel: +44 20 7176 6226  
Email: [mailto:Stacey\\_knox@platts.com](mailto:Stacey_knox@platts.com)

## The 7<sup>th</sup> Clean Coal Forum 2011



March 24th-25th | Beijing, China  
[www.cleancoalforum.com](http://www.cleancoalforum.com)

Building on the massive success of the past 6 clean coal programs that has generated huge success by attracting 1500+ industry players and intriguing great enthusiasm and pursuit of clean coal technologies especially in China and Asia Pacific market. The 7th Clean Coal Forum 2011 will be held on March 24th to 25th in Beijing China, which is designed to concentrate on the key issues including China's energy policy with the arrival of 12th Five-Year Plan, the process of the Demonstration coal chemical, IGCC and IGCC polygeneration projects, and the advanced clean coal technologies.

### Highlights:

- Updating the latest government regulations and developing trends of coal industry in China
- Learning the progresses of China's large-scale coal chemical and IGCC/ IGCC polygeneration demonstration projects
- Exploring the forefront of leading edge clean coal technologies in coal chemical industry: coal gasification, direct coal liquefaction, indirect coal liquefaction, coal to methanol, methanol to gas, and coal-based polygeneration

\*CCSA members are entitled to the discounted fee of USD 2,055.\*

If you are interested in this rewarding and fascinating event, please contact:

Kathy TAN, Conference Manager  
Tel: 86-21-68407631  
Email: [mkathyt@chinadecisionmakers.com](mailto:mkathyt@chinadecisionmakers.com)

## 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

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