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CO₂ Capture, Sequestration & Utilisation

Beijing Research Institute of
China Shenhua Coal to Liquid and
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World Resources Institute
Mckinsey & Company
Shell Downstream Services
International
BP Alternative Energy
Uhde Shedden
AirLiquide
Schlumberger Carbon Services
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I.M. Skaugen SE
Enviro Energy Int'l Holdings Ltd
EcoSecurities Group China
Development Solutions
ACCA21, China



5-6 March 09 | BEIJING, CHINA
Crowne Plaza Park View Wuzhou Beijing

promotion partners



Day 1 - Thursday, 5 March 2009

08:00 Registration & Coffee

09:00 Chairman's Welcome and Remarks

09:10 CCS – Assessing the Need and Economics

- Current framework for CCS
- At what cost for CCS and CO₂ price does the economics work
- Role of carbon markets and linkage with CCS
- Recommendations for the future

Warren Campbell, Principal
McKinsey & Company

09:45 Propelling CCS as Measure for Climate Mitigation – Shell's Perspectives and Participation

Dr. Wolfgang Heidug, Special Adviser - CO₂ Policy
Shell Downstream Services International

10:15 CCS Progress of Shenhua Coal Conversion Project

Ren Xiangkun, Deputy Director
Beijing Research Institute of China Shenhua Coal to Liquid and Chemical Co., Ltd.

10:45 Discussion followed by Coffee

11:15 Guidelines for Implementation of CCS: Towards Global Convergence on Regulatory Frameworks

- Review of the guidelines and how they relate to emerging regulatory frameworks for CCS
- Emerging policy incentives that offset costs

Sarah Forbes, Senior Associate
World Resources Institute

11:45 Enabling CCS in Algeria's in Salah CO₂ Storage

- Case study & project implementation experience
- Legal and financing challenges and solutions
- BP's experience and activities ahead for CCS

Dr Tony Espie, Senior Advisor, CO₂ Storage
BP Alternative Energy

12:15 Financing CCS Project – Options and Challenges

- Funding options, risk management and partnerships

12:45 Discussion followed by Lunch

14:00 Incentivising CCS Through Emissions Trading

- Will CCS be applicable for CDM status

Peter Ho, General Manager
EcoSecurities Group China

14:30 Opportunities for Future EU-China Cooperation on CCS Regulation

- EU-China cooperation on CCS
- STRACO2 project information
- EU's CCS regulation and China's CCS policies
- Applicability of EU and International's CCS regulation in China
- Opportunities for future cooperation

Daniel Krahl, STRACO2 Project Officer
Development Solutions

14:50 CO₂ Source – Sink Matching, A Contribution towards Clean Coal Technology Implementation in China

- EU Geocapacity project information
- CO₂ storage capacity assessment and GIS mapping in China - methodology and standards (CO₂ source inventory, storage capacity assessment)
- Case study: Bohai Bay sedimentary basin (Hebei Province)

Dr Bonijoly Didier, Deputy Head
CO₂ Project Coordinator
BRGM

15:10 Aligning Acceptance Criteria and Standards for CO₂ Value Chain, Capture, Transportation and Storage

- DNV's commitment and partnership in international CCS projects

Elisabeth H Tørstad, Director of Operations Cleaner Energy and Utilities
DNV Energy

15:40 Discussion followed by Tea

16:10 Recent Developments on Oxycombustion for Carbon Capture and Storage

HY Poh, VP Technology
Air Liquide



16:40 Facility Design Optimisation for Carbon Capture and Transport

- Concepts developed for Australia's CCS programs
- Major design considerations and opportunities to optimise the overall design of gasification based processes that incorporate CCS

Steven van Wagenveld, Manager Technology Services
Uhde Shedden Thailand

17:10 Large Scale CO₂ Shipping as Industry Enabler

Per Arne Nilsson
I.M. Skaugen SE

17:40 Discussion followed by End of Day One

Day 2 - Friday, 6 March 2009

09:00 Chairman's Remarks

09:10 CO₂ Geological Storage and Criteria for Site Mapping for Sequestration

Mahmut Sengul, Vice President, Middle East and Asia
Schlumberger Carbon Services

09:40 Post Combustion Capture for CO₂ in Coal Fired Power Plants in Australia and China

- Details of PCC technology
- Current pilot projects and economics
- Effectiveness of PCC for other industries (e.g. cement, steel, etc)

Dr Jim Smitham, Deputy Director
CSIRO Energy Transformed Flagship

- 10:10 **Outlook of CCS in China & Near Zero Emissions Coal CCS Project**
Dr Zhang Jintian
ACCA21, China
- 10:40 Discussion followed by Coffee
- 11:10 **Progress of Current CO₂ Capture & Sequestration Projects in USA/Europe**
- 11:40 **CO₂ Sequestration for ECBM/EOR Projects in China**
Senior Representative
Enviro Energy Int'l Holdings Ltd
- 12:10 **Sequestration of CO₂ by Algae – Industrial Farming of Fuel Through Algal Bioreactor**
 - Industrial farming of hydrocarbon fuel on a continuous basis first from the CO₂ in the air and the stacks of the cement plants
 - Current R&D to ensure continuous operation of a bioreactor and ensure harvesting of starch for use as fuel
 - Opportunities for global cement plants to re-utilize emitted CO₂ from stack emissions for green fuels*Ramesh Suri, Regional Geocycle Project Head*
Holcim Services (South Asia) Ltd.
- 12:40 **Other Usage of CO₂**
 - Fertiliser
 - Chemicals (e.g. Methanol)
- 13:15 Final discussion followed by Closing Lunch
- 14:45 End of Conference

“Securing energy supplies and speeding up the transition to a low-carbon energy system both call for radical action by governments — at national and local levels, and through participation in co-ordinated international mechanisms.”

“The energy sector will have to play the central role in curbing emissions – through major improvements in efficiency and rapid switching to renewables and other low-carbon technologies, such as carbon capture and storage (CCS).” *IEA's World Energy Outlook 2008*

The Massachusetts Institute of Technology (MIT) has recorded, to date, more than 30 carbon capture and storage demonstration projects to take place across the globe, with concentration in USA, Norway and etc. With these developments, it proves the seriousness of CCS and this low-carbon technology is here to stay. Whilst industrial-scale storage can take off almost immediately with existing technology, the uncertainties remains in the cost effectiveness of technologies as well as the financing and regulatory framework. It is time for both the government and energy sectors to take action!

With conference set in Beijing, it is inevitable that China and the rest of Asia pace up with mitigation measures for climate change. Several EOR projects currently in China are using CO₂ as feedstock. In Japan, petrochemicals companies such as Mitsui Chemicals has announced their plans to build a CO₂ to Methanol production plant. Other industries also include cement producer Holcim, investing in sequestration of CO₂ by algae farming, which claim to produce a tonne of algae biomass from two tones of CO₂ emission.

CMT's **CO₂ Capture, Sequestration & Utilisation 2009** presents expert panel to discuss issues in the CO₂ utilization, CCS value chain, and commercializing industrial scale CCS. It aims to provide indepth focus of CCS and unfold opportunities in Asia and the world, possibly accelerating more CCS projects.

Attend CMT's CO₂ Capture, Sequestration & Utilisation 2009 to:

- Hear from majors and national oil companies about their perspective and contribution towards CCS commercial section
- Grasp in-depth understanding of CCS value chain – concept, economics and role of stakeholders
- Zoom in with details on **Enhanced Oil Recovery (EOR)** project in Algeria, China and Norway
- Assess the economics between cost of CCS project with CO₂ price
- Understand how the emission trading mechanism can incentivise CCS project or utilization of CO₂
- Meet key technologies providers as they discuss on the development of cost effective carbon capture technologies
- Be updated on the clean coal technology implementation in China and **Post Combustion Capture (PCC)** technology installed in Australia and China's coal fired power plants
- Evaluate the various options in the alternative utilization routes for CO₂ – chemicals, fertilizers and algae biomass
- Find out the criteria and challenges in CO₂ logistics and geological storage

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CO₂ Capture, Sequestration & Utilisation

5-6 March 09 | Beijing, China

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FEES

The full Registration Fee includes cost of all sessions, luncheon, coffee/tea & documentation.

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USD1,595	USD1,295 (MIN SAVINGS OF USD900)

* Terms and conditions apply.

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Cut off Date for Room Booking: 4 February 2009

CMT'S 2009 EVENTS

4th Methanol MARKETS & TECH

DOHA, QATAR • 17-18 February

"Strategising for profitability amidst volatile volumes and prices"

CarbonWorld Doha

DOHA • 26-28 April

Held under the patronage of
 H.E Abdullah Bin Hamad Al-Attiyah
 Deputy Premier & Minister of Energy & Industry
 Chairman, Qatar Petroleum

CTLtec *Asia 09*

BEIJING, CHINA • 3-4 March

"Monetizing Coal Polygeneration and Integrating Environmental Friendly Solutions"

Confirmed Speakers

- Beijing Research Institute of China Shenhua Coal to Liquid and Chemical Co., Ltd
- Purvin & Gertz • Sasol China • Dow Asia Pacific & Greater China
- Synfuels China • Sumitomo Mitsui Banking Corporation
- Australian Energy Company • ConocoPhillips • Eversheds LLP
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- University of Padova • Lurgi • AirLiquide • Sud Chemie
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