

[www.cmtevents.com](http://www.cmtevents.com)



# CO<sub>2</sub> Capture, Sequestration & Utilisation

Beijing Research Institute of  
China Shenhua Coal to Liquid and  
Chemical Co. Ltd.  
World Resources Institute  
Mckinsey & Company  
Shell Downstream Services  
International  
BP Alternative Energy  
Uhde Shedden  
AirLiquide  
Schlumberger Carbon Services  
CSIRO  
BRGM  
DNV Energy  
Holcim Services  
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 CO<sub>2</sub> 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 - CO<sub>2</sub> 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 CO<sub>2</sub> 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, CO<sub>2</sub> 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 CO<sub>2</sub> Source – Sink Matching, A Contribution towards Clean Coal Technology Implementation in China

- EU Geocapacity project information
- CO<sub>2</sub> storage capacity assessment and GIS mapping in China - methodology and standards (CO<sub>2</sub> source inventory, storage capacity assessment)
- Case study: Bohai Bay sedimentary basin (Hebei Province)

Dr Bonijoly Didier, Deputy Head  
CO<sub>2</sub> Project Coordinator  
*BRGM*

### 15:10 Aligning Acceptance Criteria and Standards for CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> Capture & Sequestration Projects in USA/Europe**
- 11:40 **CO<sub>2</sub> Sequestration for ECBM/EOR Projects in China**  
*Senior Representative*  
*Enviro Energy Int'l Holdings Ltd*
- 12:10 **Sequestration of CO<sub>2</sub> by Algae – Industrial Farming of Fuel Through Algal Bioreactor**
  - Industrial farming of hydrocarbon fuel on a continuous basis first from the CO<sub>2</sub> 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 CO<sub>2</sub> from stack emissions for green fuels*Ramesh Suri, Regional Geocycle Project Head*  
*Holcim Services (South Asia) Ltd.*
- 12:40 **Other Usage of CO<sub>2</sub>**
  - 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 CO<sub>2</sub> as feedstock. In Japan, petrochemicals companies such as Mitsui Chemicals has announced their plans to build a CO<sub>2</sub> to Methanol production plant. Other industries also include cement producer Holcim, investing in sequestration of CO<sub>2</sub> by algae farming, which claim to produce a tonne of algae biomass from two tones of CO<sub>2</sub> emission.

CMT's **CO<sub>2</sub> Capture, Sequestration & Utilisation 2009** presents expert panel to discuss issues in the CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> price
- Understand how the emission trading mechanism can incentivise CCS project or utilization of CO<sub>2</sub>
- 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 CO<sub>2</sub> – chemicals, fertilizers and algae biomass
- Find out the criteria and challenges in CO<sub>2</sub> logistics and geological storage

Sign up with your team to enjoy attractive group discount. Register online @ [www.cmtevents.com](http://www.cmtevents.com) with your team today!

### You will network with

*Presidents, CEOs, VPs & Directors, Analysts, General Managers, Commercial Managers, Business Development Executives, Research Directors, Sales & Marketing Managers, Technical Advisors involved in: Coal, CTL/GTL, Gasification, Liquefaction, Refinery Industrial Gas, Chemicals, Methanol, Olefins, Catalysts, EPC, Power & Utilities, Engineering Companies, Lubricant Companies, Gas Separation, Equipment and Technologies providers*



## CO<sub>2</sub> Capture, Sequestration & Utilisation

5-6 March 09 | Beijing, China

090313MM03CS    A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

If undeliverable, please return to: 80 Marine Parade Road # 13-02 Parkway Parade Singapore 449269

Update your details at [www.cmtevents.com](http://www.cmtevents.com)



**AIR MAIL**

Please fax us the completed registration form

Name (Dr/Mr/Mrs/Ms) \_\_\_\_\_

Company Name \_\_\_\_\_

Designation \_\_\_\_\_

Address \_\_\_\_\_

City/Postcode \_\_\_\_\_ Country \_\_\_\_\_

Tel (Home) \_\_\_\_\_ (Office) \_\_\_\_\_

Mobile \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_

Photocopy Registration Form to Preserve Brochure Copy, March 2009

CMT'S 2009 EVENTS

## 4<sup>th</sup> 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
- Haldor Topsoe • Uhde Shedden • Siemens Fuel Gasification
- University of Padova • Lurgi • AirLiquide • Sud Chemie
- International Financial Corporation (IFC)
- SINOPEC Qilu Petrochemical Co. Ltd.
- VINACOMIN • Chery Automobile Co Ltd • Accelergy Corporation

### HOW TO REGISTER

**By Internet:** [www.cmtevents.com](http://www.cmtevents.com)  
**By Email:** [sasha@cmtsp.com.sg](mailto:sasha@cmtsp.com.sg)  
**By Fax:** 65-6345 5928  
**By Tel:** 65-6346 9124

### FEES

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

Conference Fee for 1 Person	Conference Fee for 3 or more* (from the same company)
<b>USD1,595</b>	<b>USD1,295</b> (MIN SAVINGS OF USD900)

\* Terms and conditions apply.

**Cancellations, Refunds & Transfers:** A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.

### PAYMENT

**By Telegraphic Transfer**

**Account Name:** Centre for Management Technology  
**A/C No:** 251 - 004487 - 178  
**Bank:** HSBC Singapore  
**Branch:** Marine Parade, Singapore  
**Swift Code:** HSBC SC5G

TT must include additional USD21 for Beneficiary's Bank charges. Delegates must bear all bank charges and local taxes (if applicable). Fees must be NETT of ALL charges.

### CONFERENCE VENUE

CMT has arranged special discounted room rate at RMB 1,380 / RMB 1,580 nett (Superior / Deluxe) per room per night including 1 American buffet breakfast (subject to room and rate availability) for delegates at **Crowne Plaza Park View Wuzhou Beijing**. Please request Hotel Reservation Form, which will be emailed together with the invoice, providing full credit card number and expiry date and fax completed form to:

Andrias Ananta, Crowne Meetings Director  
**Crowne Plaza Park View Wuzhou Beijing**  
 No. 8 North Si Huan Zhong Road  
 Chaoyang District, Beijing 100101, China  
 Tel: 86 10 64817231  
 Fax: 86 10 64993161  
 Email: [andrias@cpparkviewbj.com](mailto:andrias@cpparkviewbj.com) / [andrias.ananta@ihg.com](mailto:andrias.ananta@ihg.com)

Cut off Date for Room Booking: 4 February 2009

**CUSTOMISED SPONSORSHIP PACKAGES AVAILABLE** - This event is an excellent platform to promote your organisation to influential players and investors in the industry. Sponsorship opportunities available include Corporate, Exclusive Luncheon, Cocktail & Documentation sponsor. Exhibition / catalogue display can be arranged upon request. Contact [cynthia@cmtsp.com.sg](mailto:cynthia@cmtsp.com.sg) or (65) 6346 9132.