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Forum on Coal Gasification, Liquefaction,
Coal-Chemicals Projects & Technologies

6th CTLtec Asia

3-4 March 2009 | Beijing, China
Crowne Plaza Park View Wuzhou Beijing

*“Monetizing Coal Polygeneration and
Integrating Environmental Friendly Solutions”*

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
Udde Shedden
Siemens Fuel Gasification
University of Padova
Lurgi
AirLiquide

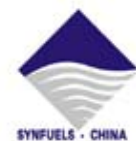
Sud Chemie
International Financial
Corporation (IFC)
SINOPEC Qilu Petrochemical
Co. Ltd.
VINACOMIN
Chery Automobile Co Ltd
Accelergy Corporation

Shenhua DCL Plant: Pictures courtesy of Shenhua

promotion partners



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Day 1 - Tuesday, 3 March 2009

08:00 Registration & Coffee

09:00 Chairman's Welcome and Remarks

09:10 **CTL & Low Carbon Emission**

*Dr. Du Minghua, Deputy Director
Beijing Research Institute of China Shenhua
Coal to Liquid and Chemical Co., Ltd*

09:45 **Sasol on CTL Project in China – Progress and Technical Roadmap**

*John Armstrong, Country President
Sasol China*

10:10 **Fischer-Tropsch Synthesis – Synergy between Science and Applications**

*Dr. Yong-Wang Li, General Manager
Synfuels China*

10:30 Discussion followed by Coffee

11:00 **Perspective on the Growth of Coal to Chemicals Industry in Asia**

*Jim McIlvenny, President
Dow Asia Pacific & Greater China*

11:30 **Market Outlook For Coal, Feedstocks And Chemicals**

- Coal vs crude oil vs natural gas: Pricing outlook and trends
- Asia/China coal demand and pricing outlook
- Cross examining demand arising from power versus coal conversion
- Feedstock economics and competitiveness: natural gas, naphtha, coal, etc
- Outlook of downstream chemicals: Methanol, Olefins, DME, Propylene, etc

*N. Ravivenkatesh, Principal
Purvin & Gertz*

12:10

Updates on AEC's Coal to Urea Project in Australia, Project and Environmental Economics

*Allan Blood, Chairman
Australian Energy Company*

12:40 Discussion followed by Lunch

14:00 **Regulatory & Financing Structure & Challenges ahead for Coal to Energy**

- Current regulatory & environmental framework for coal polygeneration
- Overview of the current climate of credit market
- Criteria for successful coal conversion project financing
- Challenges of CTL from financiers' perspective
- Risk disaggregation and operation integration

*Gregory Liu, First Vice President
Structured Finance Asia Pacific
Sumitomo Mitsui Banking Corporation*

*Li Tu, Associate Investment Officer
International Finance Corporation*

*Peter Corne, Managing Director
Eversheds LLP*

15:00

India's Growth in Coal Gasification and Opportunities for Liquefaction or Coal-Chemicals Projects

15:30

CTL Industrialization in China

*Prof. Li-Ren Cao, Chief Engineer
Synfuels China*

15:50

Discussion followed by Tea

16:20

China's Coal to Methanol & Downstream Production Outlook

*Yue Guo, Deputy General Manager
China Shenhua Coal to Liquefied & Chemical Co. Ltd*

16:50

Status in Methanol & Acceptance of Synthetic Fuels from Coal in China's Transportation Sector

- Current development of Methanol & other Synthetic fuels in CHERY
- Feasibility investigation of Domestic & Overseas markets
- DME as alternative fuel in China

*Zhang Zhifu, Project Manager, Combustion Sys/
Performance Devt/Alt. Fuels, Adv Tech Devt Dept
Chery Second Engine Engineering
Research Institute*

17:20

Coal based Calcium Carbide & PVC Production & Market Development

*Yu Guoliang, Senior Engineer
SINOPEC Qilu Petrochemical Co. Ltd.*

17:50

Discussion followed by End of Day One

1800 -1915 hrs. *Networking Reception*
for Speakers & Delegates.
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Day 2 - Wednesday, 4 March 2009

09:00 Chairman's Remarks

09:05

Vietnam's Expansion and Investment Opportunities in Clean Coal Power Generation and Gasification Projects

*Dr. Nguyen Chi Quang, Senior Advisor to
Chairman of Board
Vietnam National Coal - Mineral Industries
Group (VINACOMIN)*

09:30

EPC's Perspective on Australian and Regional Gasification Projects

- Overview of recent gasification projects and feasibility studies
- Comparison of underground and above-ground gasification
- Techno-economic analyses of coal-to-chemicals studies and delivery of mega scale gasification projects
- Strategies to manage EPC contracting and HR cost

Steven van Wagensveld, Manager Technology Services
Uhde Shedden Thailand

10:10 **An Industrial Gas Company Vision: Air Liquide's Solutions for CTL Projects**

Wilfried Manet, VP Marketing- Coal Gasification Projects China - Korea
Air Liquide



10:30 Discussion followed by Coffee

11:00 **Creating Performance Technology for Purification, Syngas Generation and Fischer-Tropsch Synthesis**

Tom Pusty, Group Vice President
Sud Chemie

11:30 **Advanced FTS Integrated Technology**

Dr. Yong-Yang, Deputy Professor, R&D
Synfuels China

11:50 **Clean Economic Fuels from Abundant Coal Resources – Accelergy's Integrated Coal to Liquids ICTL® Technology**

Dr Rocco A Fiato, CTO
Accelergy Corporation

12:20 **Methanol to Gasoline (MTG) Technology, an Alternative for Coal to Liquid Fuel**

Sylvain Hantzer
Exxonmobil Research & Engineering
ExxonMobil
Research and Engineering

12:45 Discussion followed by Lunch

14:00 **Substitute Natural Gas from Coal - Lurgi's Technology & Experience**

Uwe Zwiefelhofer, VP Sales Asia
Lurgi GmbH

14:30 **ConocoPhillips' E-Gas Technology Applications for SNG Projects**

Phil Amick, Technology Director - Gasification
ConocoPhillips

15:00 **Substitute Natural Gas - A Clean Use of Coal - From A Technology Provider Perspective**

Jens Perregaard, Area Sales Manager
Haldor Topsoe

15:30 Discussion followed by Tea

16:00 **Gasification Technological Development for All Coal Types**

Dr. Manfred Schingnitz, Managing Director & Dr. Klaus-Dieter Klemmer, Project Manager
Siemens Fuel Gasification

16:30 **Improve Process Performance in Coal Gasification for Power and Syngas Production**

Prof Alberto Bertucco
Department of Chemical Engineering (DIPIC)
Università di Padova

17:00 Final Discussion followed by End of Conference

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

Into its 6th year, the world's coal conversion, gasification and liquefaction industries gather at **6th CTLtec ASIA**, held in Beijing on 3 – 4 March 2009, to witness the first barrel of liquid fuel from coal, produced by Shenhua's first DCL plant. This event is expected to draw stakeholders and key players of the coal conversion and polygeneration sectors from all corners of the globe.

"If the price of oil stays above \$50 or \$60, I think that within 10 years, using coal as a chemical feedstock will be a very big industry in China"
Zhang Yuzhuo, Shenhua Group, Vice President and Chairman of China Shenhua Coal Liquefaction

A worsening of the financial crisis has weakened oil demand and prices, thus exerting downward pressure on prices. Given high capital cost for coal conversion complexes, CTL and coal to chemicals no longer enjoys its competitive advantage if oil prices continue to fall below USD50. Has faith and interest in coal polygeneration been dampened? Will demand and price of crude price rise again as the global economy recovers?

Coal is still favoured amongst countries rich in this natural resources, especially China and India. Projects are installed in the gasification of coal to produce syngas and methanol, which then can be used in the fertilizer, olefins and chemicals sector and be transformed into ethylene and propylene.

Transportation fuels need is key priority and CTL offers to supplement this with cleaner synthetic diesel and gasoline. Methanol and dimethyl ether (DME), both derived from coal gasification, have also become attractive options for China's and Japan's transportation markets.

The growing need for town-gas propels technological development in substitute natural gas (SNG), produced from coal gasification and currently China is exploring projects to meet this demand.

With the promising supplies of alternative fuels, the black coal has to be "cleaned up", reduce emission and be environment-friendly. Water requirement and the output efficiency also challenge project owners and technological providers to ensure that coal polygeneration can be environmentally and financially economical.

To assess the present dynamics of market in transition, attend **CMT's 6th CTLtec ASIA**. This conference offers top industry panel, decision makers and market players to discuss issues and challenges ahead. Mark your calendar to be at this premier gathering to network and forge lasting business opportunities.



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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) |
| USD1,795 | USD1,395 (MIN SAVINGS OF USD1200) |

* 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

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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
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 Chaoyang District, Beijing 100101, China
 Tel: 86 10 64817231
 Fax: 86 10 64993161
 Email: andrias@cpparkviewbj.com / andrias.ananta@ihg.com

Cut off Date for Room Booking: 2 February 2009

Photocopy Registration Form to Preserve Brochure Copy. March 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-Attayah
 Deputy Premier & Minister of Energy & Industry
 Chairman, Qatar Petroleum

CO₂ Capture, Sequestration & Utilisation

BEIJING, CHINA • 5-6 March

“Integrating Energy Production with Carbon Management Strategy”

Confirmed speakers

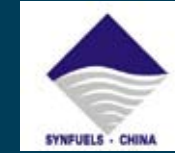
- Beijing Research Institute of China Shenhua Coal to Liquid and Chemical Co. Ltd.
- World Resources Institute • McKinsey & Company • Shell Downstream Services • International
- BP Alternative Energy • Uhde Shedden • AirLiquide
- Schlumberger Carbon Services • CSIRO • BRGM
- DNV Energy • Holcim Services • I.M. Skaugen SE
- Enviro Energy Int'l Holdings Ltd • EcoSecurities Group China

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Attend CMT's 6th CTLtec ASIA 2009 to:

- Meet key coal producers and coal conversion companies from **China, India, Vietnam, Indonesia, Australia** and even **South Africa** on coal and coal-chemicals production and potential
- Be updated on **Shenhua DCL** and **Sasol-Shenhua CTL** projects
- Assess the current economic outlook, its impact on energy demand as well as the financing and regulatory challenges for coal polygeneration projects
- Cross examine the **feedstock economics**, and assess the pricing outlook and competitiveness between coal, natural gas and crude oil
- Optimise your current capacity by diversifying into **synthetic natural gas (SNG), DME, methanol** and downstream petrochemicals
- Evaluate utilization of **Methanol & DME** as transport fuels and the possibility of taking this application to your country
- Compare current available **gasification technologies (and IGCC)** for cleaner and efficient production process and multiple products slate
- Be updated on the current gasification projects as well as recommendation on **EPC** strategy
- Access to more than 8 hours of networking opportunities with key stakeholders including coal producers and coal-conversion project owners, national oil companies, oil majors, gasification technologies providers and etc

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Introduction

After years of research and development, Synfuels China Company Limited (hereinafter referred to as "SYNFUELS CHINA") has established scientific research methods and running mechanism innovation. Since 1997, SYNFUELS CHINA has started a series of systematical research and development on Fischer-Tropsch Synthesis (FTS) technology. SYNFUELS CHINA owns the independent intellectual property rights of the comprehensive process technology for indirect coal liquefaction, and became the representative of independent Coal-to-Liquids (CTL) technology in China. SYNFUELS CHINA has come into being a kind of pattern, that is, fundamental engineering research and development, engineering design and contract, catalyst production and sale, fine chemicals production and special equipment research and development. SYNFUELS CHINA forms the completely technical system from laboratory research to the development of pilot plant, thus to the process of industrialization demonstration.

At present, SYNFUELS CHINA has been working on the construction of three industrial demonstration plants. SYNFUELS CHINA is going to be the million-ton PDP supporter as well as the catalyst supplier in the future CTL market.

Focusing on technical support for CTL industries establishment, SYNFUELS CHINA has built a set of professional R&D system and possessed of an outstanding and innovative R&D team (more than 300), to ensure the core technology in a leading position and provide an endless and advanced supporting system for the CTL industrialization progress.

According to the blueprint of national CTL industry and self-developed technology scheme, it is expected that in 2010-2013, three commercialized plants with capacity of 3-5 million t/a will be set up on the main coal fields like Inner Mongolia and Shanxi; from 2013 to 2018, synthetic oil industry of over 12-15 million t/a will be formed; by 2020, synthetic fuel industry of 33 million t/a will be established. SYNFUELS CHINA's income will reach 3 billion RMB once, technical service charge 3 billion RMB per year. By 2020, SYNFUELS CHINA will own 3-3.5 billion RMB per year by catalyst sale. It will lead to direct production value more than 150-200 billion RMB per year, direct employment opportunity of 200,000, and indirect of 1-2 million. It will play a key role in developing China's economy and safeguarding the national energy safety.