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CTLtec

Asia 2008

5th Annual Forum on
Clean Coal/Gasification/Liquefaction
Projects & Technologies

4 - 5 March
Regent Hotel | Beijing, China

"Maximising the value chain of Fuels, Chemicals, DME & Olefins"

Shenhua Group
Shenhua Baotou Coal Chemical Co.
Beijing Research Institute of Coal Chemistry
CIC Energy
Sasol Synfuels International

Sud Chemie
Synfuels China
Sojitz Corporation
WWF International
Rothschild UK

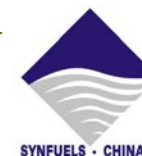
Haldor Topsoe
West Virginia University
Johnson Matthey
Rentech
Altoña Resources

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Why you NEED to attend CTLtec Asia 2008.

Be it embarking on clean coal technologies or venturing into coal gasification and/or liquefaction (CTL), China and Asia's coal-rich countries are paving the route to maximize the value of their coal resources, into gasoline, gasoil, jetfuels, utilities and chemicals. The unanimous global interest of converting coal to liquid hydrocarbons is indisputable, and coal is now becoming more than ever a key source of energy.

Access first hand information from stakeholders of this burgeoning industry: Project status, economics, regulatory and financing, environmental impacts and business opportunities

Shenhua Group's first commercial CTL production line will come on stream in 2008, with annual output of 1.08 million tons, comprising of diesel, LPG and naphtha. The coal giant is planning two coal-to-olefin projects, producing 1.6 million tons of olefin annually.

Meanwhile, the US Air Force has planned to test and certify every airframe to fly on synthetic fuel blend by early 2011.

The buzz is going on in the rest of Asia as well. **India**, having 248 billion tons of coal reserves is in talks with Sasol on a potential US\$6 – 8 million investment proposal on Coal to Liquid (CTL) project. Meanwhile, **Australia's** Metex Resources (and CSIRO) is also going to build an underground coal gasification (UCG) demonstration plant in Queensland while in **Indonesia**, a US\$5.5 billion deal for a CTL project has been finalised.

From Coal to Liquid Fuels and Chemicals (Olefins & DME), find out how technological breakthroughs can help you to maximize and monetize on feedstock economics.

Whilst there may be ample coal for a couple of hundred years, the question remains - how can coal be converted to clean fuels economically? The escalated petrochemical feedstock cost has created another boom in the coal chemical industry. The coal based DME industry is developing rapidly in China with more than 30 producers with total annual production capacities of 500,000 tons last year, and this figure is set to grow to over 1million tons over the next 6 months.

Carbon Capture and Storage (CCS) – Is Asia ready for it?

China is under tremendous challenge to reduce carbon and other greenhouse emissions. What are the mitigation options and technological solution available to reduce the carbon emissions from these coal conversion plants? And is Asia also gearing up for carbon capture and storage?

CTLtec Asia 2008 features key decision makers, providing you with abundant opportunities to extend your network during several coffee breaks, daily lunches and the conference reception, as well as in our exhibition area.

A must attend event. Register NOW for **CTLtec Asia 2008**.

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

Program topics, speakers and schedules published herein are confirmed as at printing time. Please refer to the event's timetable page at www.cmtevents.com for the most up-to-date information.

Day 1 - Tuesday, 4 March

- 8:00 Registration & coffee
- 9:00 Chairman's welcome and remarks
- 9:10 **THE RENAISSANCE OF COAL TO LIQUIDS AND ITS CHALLENGES**
Willie Rossouw, President, China Ventures
Sasol Synfuels International (Pty) Limited
- 9:40 **XTL TO LIQUIDS**
Hunt Ramsbottom
Chief Executive Officer and President
Rentech, Inc.
- 10:15 **REGULATORY FRAMEWORK AND LONG TERMS PLAN FOR CHINA'S COAL CONVERSION SECTOR**
 - Chinese government's next 5-year plan for energy security and combat global warming
 - China's coal market outlook and the regulatory/investment climate for coal projects
- 10:45 Discussion followed by coffee
- 11:15 **SHENHUA'S CTL INITIATIVES AND STRATEGY**
 - CTL project: production and project updates
 - Other coal conversion projects (coal to olefins)
 - Water and CO2 management and best practice
 - Prospect for China's CTL industry and challenges aheadMr Lu Zhengping, General Manager
China Shenhua Coal Liquefaction Co. Ltd.
- 11:45 **ASIA COAL DEMAND/SUPPLY OUTLOOK & IMPACT ARISING FROM NEW COAL TECHNOLOGIES**
 - Coal production/demand & export trends/outlook
 - Growth of low rank coal in supply, and tight bituminous coal situation
 - Dynamics between coal prices/quality and the new coal conversion technologies/projects
- 12:15 **COAL TO LIQUIDS (CTL) PROJECTS DEVELOPING IN CHINA**
Prof Yong-Wang Li, General Manager
Synfuels China

12:45 Discussion followed by lunch

COUNTRY FOCUS: COAL GASIFICATION & CTL PROJECT DEVELOPMENT

2:10 [INDIA](#)

2:40 **UPDATES OF THE ARCKARINGA CTL PROJECT IN AUSTRALIA**
Chris Schrape, Managing Director
[Altona Resources Plc](#)

3:10 **FEASIBILITY STUDY AND PRODUCTION POTENTIAL OF COAL GASIFICATION PLANT IN BOTSWANA**
Dr. Pieter Du Toit, EVP, CTL
[CIC Energy](#)

3:40 Discussion and followed by tea

4:10 **BROWN COAL LIQUEFACTION PROJECT IN INDONESIA**

4:40 **FUNDAMENTAL STUDIES FOR FISCHER-TROPSCH SYNTHESIS CATALYSTS**
Dr Yong Yang, Deputy Professor
[Synfuels China, Institute of Coal Chemistry, Chinese Academy of Sciences](#)

5:10 **EFFICIENT TECHNOLOGIES FOR DOWNSTREAM GASIFICATION PROCESS & INTEGRATION WITH IGCC POWER REDUCTION**
Jens Perregaard
Technology & Area Sales Manager
[Halder Topsoe](#)

5:40 Discussion followed by End of Day 1

1800 - 1900 hrs. *Cocktail Reception*

for Speakers & Delegates

sponsor by



Day 2 - Wednesday, 5 March

9:00 Chairman's remarks

9:10 **OPTIONS TO MONETIZE LOW RANK COALS IN ASIA – ECONOMICS AND LOCATION OPPORTUNITIES**

- Demand for low rank coal in Asia and export potential
- Monetization options – Upgrade, Gasification, Liquefactions, and etc
- Opportunities in Asia and the challenges

Eiichiro Makino, GM for Business Development
[Sojitz Corporation](#)

9:30 **CAPEX OF CTL PROJECTS AND THE CURRENT EPC MARKET**

10:00 **COAL TO PROPYLENE – A VISION COMES TRUE**
Norbert Ringer
Group Product Manager Methanol
Catalytic Technologies – Chemicals
[Sud-Chemie AG](#)

10:30 Discussion followed by coffee

10:50 **COAL CHEMICALS PRODUCTIONS – COAL TO OLEFINS PROJECTS IN CHINA**

- Economics of the projects
- Projection in production, specifications and timeline of projects in China
- Managing the environmental concerns

11:20 **COAL TO DME PROJECT/CASE STUDY**

11:50 **CHINA'S COAL TO METHANOL MARKET DEVELOPMENT**

- Demand drivers
- Coal to Methanol to Olefins Process/Technology/Project
- Project status update

Dr. Zhang Ming Hui, Methanol Engineer
[Shenhua Baotou Coal Chemical Co.](#)

12:20 **ADVANCED TECHNOLOGIES & CATALYSTS FOR COAL TO CHEMICALS**
Vikram Singh, Country Head, China
[Johnson Matthey](#)

12:50 Discussion followed by lunch

2:15 **FINANCING THE DEVELOPMENT OF COAL CONVERSION PROJECTS**

- Putting together the right deal for project financing
- Financing clean coal in Asia – Major projects/Case studies
- Criteria to make clean coal projects commercially financeable

Peter Bird, Managing Director
[Rothschild - London](#)

2:45 **DEVELOPMENT STATUS OF CHINA'S CLEAN COAL PROJECTS AND TECHNOLOGIES**
Dr. Xu Zhengang, Director
[Beijing Research Institute of Coal Chemistry](#)

3:15 **TURNING COAL INTO KILOMETRES – THE ENVIRONMENTAL CONCERN OF EMISSION AND WATER USAGE, AND POSSIBLE MITIGATION MEASURES**
Dr Gary Kendall
Senior Energy Business & Policy Analyst
[WWF International](#)

3:45 Discussion and followed by tea

4:15 **FROM CLEAN COAL TO CAPTURE READY – DEFINITION, DEVELOPMENT AND CHALLENGES**

- The capture ready concept – definition, development and challenges
- Practical challenges in carbon storage, management and monitoring

4:45 **IMPACT OF CO2 CONSTRAINT ON FUTURE DEVELOPMENT OF CTL/GASIFICATION, AND WHAT MITIGATIONS OPTIONS ARE AVAILABLE TO ENABLE EFFECTIVE CARBON CAPTURE**

- Based on CO2 sequestration project for Shenhua DCL plant

Dr. Qingyun Sun, Associate Director
[US-China Energy Center](#)
Research Assistant Professor,
Resource Management Department
[West Virginia University](#)

5:15 End of conference

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Asia 2008

BEIJING | 4 - 5 March 2008

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Cut off Date for Room Booking: 4 February 2008

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

1 Person	Group 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.

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Contact cynthia@cmtsp.com.sg or (65) 6346 9132.

Photocopy Registration Form to Preserve Brochure Copy. March 2008

~ 1st announcement ~

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Americas 2008

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Call for papers:

Please submit your presentation proposal (topics and abstract) to sharon@cmtsp.com.sg by 25 January 2008.
** Presentations are to be objective and informative.

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