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BiomassWorld

9 - 10 Feb 2009 / JAKARTA
Hotel Mulia Senayan

**“Maximising potential of biomass feedstocks
with best-suited technologies”**

BTC World
International Energy Agency (IEA)
REXX Asia
ASG International GmbH
Ministry of Agriculture National Team,
Indonesia
PT Bakrie Plantations
PT Godwin Austen Indonesia
Suratthani Green Energy
Mitsubishi UFJ Securities
JK Lakshmi Cement Ltd.

South Pole Carbon Asset Management Ltd
University of California, CE-CERT
National Institute of Advanced Industrial
Science and Technology (AIST)
Phu Khieo Bio-Energy Co., Ltd.
Roi Et Green Company
Nanyang Technological University
Pure Power Global
Alstom Power
Novozymes (China) Investment Co. Ltd.
Poyry

promotion partners



Ethanol Statistics



Day 1 - Monday, 9 February

- 08:00 Registration and Coffee
- 09:00 Chairman's Welcome and Remarks
- 09:10 **Biomass to Bioenergy – Future Prospects, Competition for Resources & Climate Change**
- Feedstocks – sustainable production and future potential
 - Competition for the resource for heat, power, biofuels and chemicals
 - Comparative cost analyses including supply chain and carbon pricing
 - Climate change – opportunities and constraints
- Prof Ralph E H Sims, Renewable Energy Unit
International Energy Agency (IEA)*

Power Generation

- 09:50 **Palm Biomass (EFB) to Power Generation – Operational Challenges**
- From project implementation to realisation
 - Financing challenges
 - Dealing with government on connection to grid
- Pongsatit Rajatanavin, Project Coordinator
Suratthani Green Energy*
- 10:20 **Challenges in Collection, Storage & Transportation of Biomass**
- Suryo Prawiro, Businee Development Director
PT Godwin Austen Indonesia*
- 10:50 Discussion followed by Coffee
- 11:20 **Using Sugar Cane Bagasse in Power Generation**
- Suwat Kamolpanus, Managing Director
Phu Khieo Bio-Energy Co., Ltd. & Dan Chang Bio-Energy (a division of Mitr Phol)*
- 11:50 **Capacity Outlook of Agriculture Biomass including Cassava Waste and Rubberwood Residues**
- Bambang Prastowo, Senior Researcher
Ministry of Agriculture National Team, Indonesia*
- 12:20 **Developing Large Scale Biomass Co-Firing Model – Economics, Options and Constraints**
- Senior Representative, Alstom Power*
- 12:50 Discussion followed by Lunch

- 14:10 **Project Experience of Rice Husk Biomass Powergen**
- Fuel problems, logistics and challenges
 - Operation and Maintenance problems
 - Technologies options
- Pornsak Pornchanadham, General Manager
Roi Et Green Company, Thailand*
- 14:40 **Emission Reduction Through Partial Substitution of Fossil Fuel with Biomass in Cement Manufacturing**
- Naveen Sharma, GM (E&S)
JK Lakshmi Cement Ltd*
- 15:10 **Panel Discussion – Biomass Owners/Project Developers/Agronomists**
- At what price do we value our biomass?
 - What is more economical - leave it for natural decomposition or sell it?
 - Incentives for biomass owners to develop conversion projects
 - Is there any mechanism to monitor biomass price?
- 15:40 Discussion followed by Tea
- 16:10 **Letaba Biomass Project – Switching from Coal Fired to Biomass Saw Dusts**
- Feedstock economics, energy output & technology
- Renat Heuberger, Managing Partner
South Pole Carbon Asset Management Ltd*
- 16:40 **Turning Palm Biomass into Carbon Credits - Case Study of an EFB Power Generation Project In Malaysia**
- Ricky Tagar Risnauli, CDM Consultant
Clean Energy Finance Committee
Mitsubishi UFJ Securities*
- 17:15 **Innovative Financing for Biomass Projects**
- Project Structuring and Risk Mitigation
 - Financing Models and Investors/Lenders Expectations
 - Case Study
- Frederic Crampe, Managing Director
ReEx Capital Asia*
- 17:45 Discussion followed by End of Day One

18:00 – 19:15 *Cocktail Reception*
for All Participants
sponsored by 

Day 2 - Tuesday, 10 February

08:00 - 10:00

Breakfast Talk: Biomass Pretreatment, Pyrolysis and Gasification

*Dr. Ir. R.H. Venderbosch, Senior Process Engineer
BTG Biomass Technology Group B.V.*

Issues on the conversion of biomass to gas, solid or liquid by pyrolysis and subsequent further use, f.i. gasification.

Discussion also include:

- Principles of Fast Pyrolysis and Biomass Requirements
- Key technologies (Demo scale - Fluid bed, Rotating cone and Vacuum Pyrolysis, Pilot plant – Ablative Pyrolysis)
- Possible Product Application, Energy Balance and Economics
- Challenges ahead

10:00 Discussion followed by Coffee

Cellulosic Ethanol, Fuels and Chemicals

10:25 Chairman's Remarks

10:30 First Generation Ethanol Plant to Cellulosic Ethanol Production

- New Philippines Ethanol Plant - A Case Study of Current Technology
 - Linking A First Generation Ethanol Plant to Future Cellulosic Production
 - Time Frames for Second Generation Ethanol Development
- Peter Heinzelmann, Senior Consultant, Pöyry*

11:00 Converting Cellulosic Biomass to Ethanol: Status, Developments, Opportunities, and Challenges in China

*Dr Bin Yang, Associate Research Professor
CE-CERT, University of California*

You Will Network With

- Ethanol/Biodiesel Producers • Power Companies
- Cellulosic Ethanol Producers • Plantation Owners • Biomass Processing Companies • Agricultural/Forestry Companies • Municipal Waste Companies • Institutional Investors • Financiers and Venture Capitalist, Project Finance Managers • Commodity Brokers and Analysts
- Agrobiotech, Fertilizer & Crop Protection Company Executives
- Biomass and Biofuels Technology Equipment Suppliers • Catalyst & Catalytic Technology Providers • Enzymes Providers • Commodity Testing, Inspection and Surveyors • Agricultural Machine Suppliers
- Environmental Engineers • Fuel Marketers & Distributors
- Auto-makers, engine and power generating set manufacturers

- 11:30 **Cellulosic Ethanol Technologies - Current Initiatives in Japan**
• Feedstock potential – wood & rice straw
• Technology advancement
• Economic estimation
Dr Tomoaki Minowa, Team Leader, Biomass System Technology Team Biomass Technology Research Center, National Institute of Advanced Industrial Science and Technology (AIST)
- 12:00 **Enzymatic Technologies for Sustainable Biofuels**
*Carsten Lauridsen, R&D Director
Novozymes (China) Investment Co. Ltd.*
- 12:30 Discussion followed by Lunch
- 13:50 **Advanced Production Technology to Convert Biomass and RDF Waste Material to Diesel Oil**
Wolfgang Karl, Managing Director, ASG International GmbH
- 14:20 **Developing Algae as a Biomass Feedstock**
• Conversion technology
• Cost economics & yields
*David Liang, Director, Advanced Clean Energy Centre
Institute of Environmental Science and Engineering (IESE)
Nanyang Technological University, Singapore*
- 14:50 **Converting Biomass and EFBs to Liquid Fuels via BTL Route**
- 15:20 Discussion followed by Tea
- 15:50 **Replacing Fossil Fuels Feedstocks with Renewable and Sustainable Alternatives – Woody Biomass**
• The economics of woody biomass – lessons from the petrochemical industry
• Current research directions in lignocellulosics
• Hardwoods vs softwoods
• New technologies for processing woody biomass
• A ten point plan for capturing the full value of woody biomass
*James Watson, Energy Evangelist
Pure Power Global*
- 16:20 **Using POM Biomass for Integrated Natural Fertiliser**
*Gary Mulligan, Chief Technology Officer
PT Bakrie Plantations*
- 16:50 **Global Potential for Second Generation Bio-Fuels**
• Status of current technologies – bio-chemical and thermo-chemical
• Processing costs
• Life cycle analyses relating to greenhouse gas emissions and other social and environmental factors
• Future role in the global transport sector
Prof Ralph E H Sims
- 17:20 Final Discussion followed by End of Conference

COMMERCIALIZING BIOMASS TO POWER, LIQUID FUELS AND CHEMICALS

The palm oil sector is dominated by Indonesia, Malaysia & Thailand, with volume amounting 90% of the world's production. While the oil constitutes only about 10% of the palm production, the bulk of 90% is biomass. Many plantation companies are exploring conversion technologies and unlocking the potential of OPB (oil palm biomass) from its trunk to its fruit branch (EFB).

Besides palm, Indonesia produces over 200 million tonnes of biomass per year, comprising of agriculture residues (palm waste, rice husks, sugar bagasse), estate crops and forestry wastes. Indonesia therefore presents an attractive market for biomass technology with its low feedstock cost and high electricity demand.

Next generation technologies have claimed its potential to substantially expand the feedstock base for biofuels production (e.g., lignocellulosic biomass, nonedible vegetable oils, algae). Some of these processes (e.g., gasification of biomass followed by synthesis to liquid fuels- BTL) are already in their early commercialization stage.

CMT's 2nd BiomassWorld 2009 offers top industry panel, leading plantation and power generation companies to discuss on biomass conversion to energy products, challenges and issues. Mark your calendar to be at this premier gathering to network and forge lasting business opportunities.

Do not delay! Book your seats now and update yourselves on the opportunities that biomass resources present. Register online @ www.cmtevents.com with your team.

10 Valid Reasons to Attend CMT's 2nd Biomass World:

- Comparative economic analysis on converting biomass for heat, power, fuels or chemicals.
- As a project developer, have your doubts cleared on whether to convert your biomass to power, leave it for natural decomposition or look at liquid fuel opportunities?
- **Thailand's** experience on converting EFB to power, operational challenges and concerns on feedstock availability
- Views from **Indonesian** plantation major - PT Bakrie on why they chose to convert EFB to natural fertilizer
- CDM developments (with case study on EFB power generation project) and how to claim carbon credits
- Conversion technology of biomass and EFBs to liquid fuels
- Learn from **China & Japan**, who are investing heavily in cellulosic fuels production technology, on the hurdles to commercialization & technology advancements
- Innovative financing schemes for biomass project and case study
- Switching from coal to biomass (saw dusts) – project in **South Africa**. What opportunities it presents for the coal industry? Also another **Biomass fuel switching** case study from a **cement** producer.
- **Plus a Breakfast Talk** by an experienced speaker covering all aspects of Biomass pyrolysis & gasification technologies, requirements and economics.

Send in your team for group discounts.

BiomassWorld

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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)
USD1,695	USD1,295 (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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CONFERENCE VENUE

CMT has arranged special discounted room rate at USD 120 (Mulia Grandeur, Single) + 21% Government Tax & Service Charge per room per night including 1 American buffet breakfast (subject to room and rate availability) for delegates at **Hotel Mulia Senayan**. Please complete Hotel Reservation Form, which is emailed together with invoice, providing full credit card number and expiry date and fax/email completed form to:

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“How is the regional business evolving amid volatile supplies & changing climate”

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26-28 April 2009
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