

BioPower Generation ASIA



Orchard Hotel, Singapore
25-26 March 2009

Sustainable power generation from biomass within the Asian region

PLUS

Post-conference workshop: CDM in the BioPower Industry 27 March 2009

Learn from Leading BioPower Generation Experts, Including:

Sribas C. Bhattacharya, *President,*
International Energy Initiative

William Byun, *Senior Vice President,*
Sindicatum Carbon Capital

Takashi Hongo, *Director General and Special Advisor,*
Japan Bank for International Cooperation

Tay Wee Kwang, *Executive Director,*
China Enersave

Arul Joe Mathias, *Managing Director,*
Renewable Cogen Asia

Emmy Perdanahari, *Director for Electricity Programme Development,*
Ministry of Energy and Mineral Resources Indonesia

Duncan Ritchie, *Chief Executive Officer,*
Aequero

Sverre Tvinnereim, *Bioenergy Associate Professional Officer,*
Food and Agricultural Organisation

Other Key Speakers Include:

Austin Arensberg, *Business Development Manager,*
Prime Energy Development

Dinesh Babu, *Chief Executive Officer,*
The Carbon Rating Agency,
IDEACarbon

Dr. Balasankari, *Executive Director,*
Renewable Cogen Asia

Michel Buron, *Chief Executive Officer,*
KYOTOenergy

Chris de Lavigne, *Global Vice President Consulting,*
Frost and Sullivan

Sunil Dhingra, *Fellow and Area Convenor,*
The Energy and Resources Institute India

Robert Eden, *Managing Director,*
Organics Group UK

Gordon Ewart, *Development Director,*
UltraGreen Biomass

Shaoyi Li, *Chief, Energy Resources Section, Environment and
Development Division, United National Economic and Social
Commission for Asia and the Pacific*

Barrie May, *Experimental Scientist,*
CSIRO

William Pazos, *Managing Director, Carbon,*
Standard Bank

Steve Peters, *Chief Executive Officer,*
Stratcon Group of Companies

Bernhard Raninger, *Professor,*
Shenyang Institute of Aeronautical Engineering,
Hangkong University

Kirsten Sayers, *Senior Trade Commissioner,*
Australian Trade Commission

Paul Soffe, *Associate Director,*
EcoSecurities

Shane Spurway, *Head of Carbon Banking Asia Pacific,*
Fortis Bank

Colin Steley, *South East Asia Project Manager, Carbon Asset
Development, First Climate*

West Stewart, *President & Chief Executive Officer,*
PHILBIO

Vernon Tan, *Director, Business Development,*
The AES Corporation

Benefit from:

- ✓ An overview of the state of the biomass and biopower market both globally and within the Asian region
- ✓ Participation in a discussion on the varying country policies that affect the generation and distribution of biopower
- ✓ A greater understanding of how the current economic situation is impacting the market and future financing needs
- ✓ Sustainable strategies to produce and procure feedstock for increased power generation
- ✓ Sessions on the various biopower technologies available including waste to energy and gasification
- ✓ Suggestions to overcome biomass logistics challenges especially in the area of infrastructure
- ✓ A one day dedicated workshop on CDM projects within the biopower sector
- ✓ The knowledge and experience of over 25 speakers actively participating within the biopower market

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Renewable energy has proliferated within most areas of society as a crucial and much needed solution to the increasing effects of global warming.

As the markets within Asia present us with increasing opportunities for the generation of power from biomass, we are proud to bring you this key industry event. **BioPower Generation Asia** will serve as a platform for participants from across the value chain to discuss issues, network and learn more about market movements, policy frameworks, financial opportunities, sustainable feedstock, new technologies, supply chain solutions and CDM opportunities.

This event will be of interest to anyone working within the biopower industry, not only within Asia but also in other countries who have an interest in working with the Asian region to improve the biopower industry as a whole. This includes:

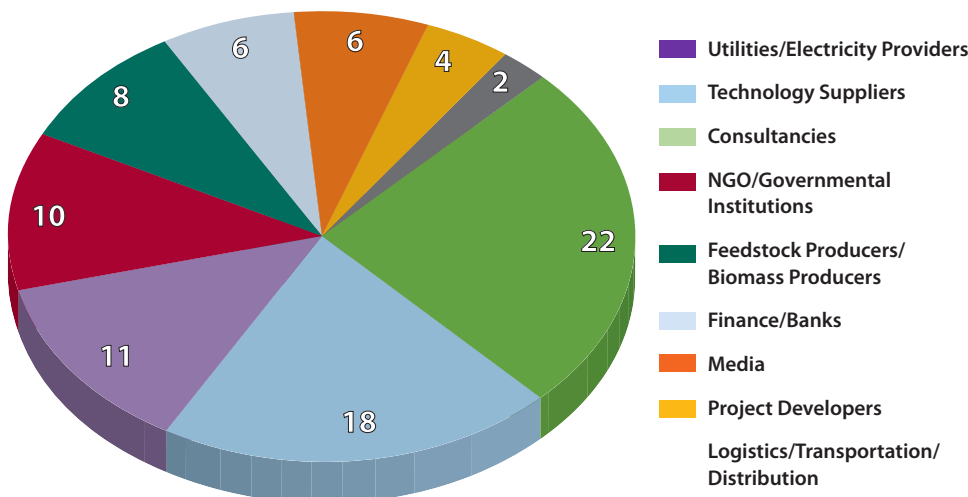
- ▶ Technology providers
- ▶ Financial firms
- ▶ Governments
- ▶ Clean energy firms
- ▶ Consultants
- ▶ Feedstock providers
- ▶ Utilities
- ▶ Research bodies/universities
- ▶ Logistics firms
- ▶ Those trading in carbon credits

"This is an extremely interesting and well organised conference. I am enjoying my time here and was able to do some very important networking"
 SEEGER ENGINEERING AT BIOWPOWER GENERATION 2008

BioPower Generation 2008 was attended by 111 participants from 22 countries. Attendees included high level executives from:

Alstom Power Systems • Babcock & Brown • Biopower International • Bioverda Iberia • BP Alternative Energy International • CGC Gestion de Biomasa • Chevron Technology Ventures • CEZ • Danish Energy Agency • Desmet Engineers & Contractors • Dow Chemical Company • EBICo • EC Bionergie • Eco-Frontier • Econcern • Ecosecurities • EDF • Electrabel • Enel Trade • Enviro • EOn Benelux • Essent Energy Trading • Euro Fibres • Fuelmed • GE Energy Financial Services • Goteborg Energi • Harbert Power • HRE Services • KEMA • KfW Entwicklungsbank • Landkom • MGT Power • Mott MacDonald • NIBC • Nidera Handelscompagnie • Nord/LB • Norsk Vekst • Ontario Power Generation • Poyry Consulting • Rivoira • RWE • SenterNovem • Sintef • Solvay • Stirling Denmark • Vapo Oy • Vattenfall • Vattenfall Heat Poland • Versa Fuels

Breakdown of attendees present in 2008:



Enhanced Delegate Networking

One of the fantastic new features of **BioPower Generation Asia** is the online networking system. All pre-registered delegates, speakers and guests can contact each other, organise meetings and network before, during and after the event using this easy to use, private networking system. For more information, please visit the website.

The **BioPower Generation Global Series** is an annual calendar of events which provide an excellent platform to do business with bioenergy industry leaders in expanding biomass power generation markets, keeping you on the road to greater profitability.

Now in its 2nd year, the series offers an integrated solution of brand positioning, business development and face-to-face networking opportunities with senior decision makers in regional hubs.

Forthcoming Events

- Towards the sustainable bio future*
 Brussels, Belgium • 16-18 March 2009
- São Paulo, Brazil • 22-23 April 2009
- Chicago, USA • 23-24 June 2009
- Cape Town, South Africa • November 2009

08.30 Registration & welcome coffee

09.00 Chair's opening remarks

Duncan Ritchie, Chief Executive Officer, **Aequero** (morning)

Chris de Lavigne, Global Vice President Consulting, **Frost and Sullivan** (afternoon)

Market Movements

This opening session will provide a solid basis for discussions on the biopower industry both within Asia and beyond. It will look at the future of the biopower industry, biomass opportunities, project trends and a case study on developed countries.

09.15 **Keynote Address: The Current State and Future Prospects of the Global BioPower Industry**

- ▶ Global status of bioenergy and biopower
- ▶ Environmental benefits of biopower
- ▶ Future prospects for the industry

Shaoyi Li, Chief, Energy Resources Section, Environment and Development Division, **United National Economic and Social Commission for Asia and the Pacific**

09.45 **An Overview of the Biomass Industry within Asia**

- ▶ Where is the market headed?
- ▶ Who are the key players?
- ▶ What are the drivers and inhibitors of the market?
- ▶ Elements of a successful project
- ▶ The role of investment aggregation vehicles

Duncan Ritchie, Chief Executive Officer, **Aequero**

10.15 Networking refreshment break

10.45 **Lessons Learnt from Development, Operation and Maintenance of 20 BioPower Projects within Asia**

- ▶ Emerging trends from around 20 projects within Asia
- ▶ Source and competitiveness of biopower equipment from around the world
- ▶ Risk management in biopower generation

Arul Joe Mathias, Managing Director, **Renewable Cogen Asia**

Dr Balasankari, Executive Director, **Renewable Cogen Asia**

11.15 **Case Study: How are Developed Countries Building their Biomass Programmes?**

- ▶ UK – a boost in the small scale biomass sector
- ▶ Lessons learnt
- ▶ Mirroring the development within the UK to the Asian market

Robert Eden, Managing Director, **Organics Group UK**

11.45 Interactive discussion with 'Market Movements' speakers

12.15 Networking lunch break

Policy Frameworks

One of the major challenges within the region is the varying policies from country to country, increasing the risks of trading across borders. This section will allow delegates to gain a better understanding of how each country operates, the initiatives being set up and the subsidies in place to encourage the growth of the market.

13.30 **Panel Discussion: BioPower Policy and Energy Security within Asia – An Opportunity to Learn about the Various Country Policies that Affect Your Projects**

During this panel discussion you will hear from officials from various Asian countries, their policies, incentives and subsidies to encourage biopower projects within the region. Compare, contrast and question those who are in the hot seat taking these decisions!

- ▶ What are the policies being implemented to encourage biopower projects?
- ▶ How are country policies affecting financing and investment levels?
- ▶ What are the Asian governments doing to produce a more secure environment?
- ▶ Can we overcome the challenges of cross border policy differences within Asia?

Moderator: **Chris de Lavigne**, Global Vice President Consulting, **Frost and Sullivan**

Sunil Dhingra, Fellow and Area Convenor, **The Energy and Resources Institute India**

Emmy Perdanahari, Director for Electricity Programme Development, **Ministry of Energy and Mineral Resources Indonesia**

Kirsten Sayers, Senior Trade Commissioner, **Australian Trade Commission**, Singapore

Vernon Tan, Director, Business Development, **The AES Corporation**, China

14.15 **What project developers should know about bioenergy policy developments and how they impact the viability of biomass co-firing today**

- ▶ What are the currently available policy and regulatory frameworks that may be used to implement a commercial scale co-firing project?
- ▶ Policy lessons learned from Europe: Do existing measures adequately address the true value of co-firing and is it enough?
- ▶ Supply risk: One of the most prevalent threats to biomass co-firing. What policy developments are needed to add security for industry stakeholders?
- ▶ Encouraging CCS in coal power plants through policy and together with biomass co-firing, pushing towards 'climate cleaning' power stations

Paul Soffe, Associate Director, **EcoSecurities**

14.45 Networking refreshment break

Financing and Investment Opportunities

Finding the financing for large biopower projects is a challenge in itself – within the current economic situation the barriers for investment and development have increased. This session will examine the financial outlook for the sector, as well as investment opportunities within energy portfolios and carbon assets.

15.15 **Panel Discussion: A Review of the Cost Competitiveness of the Industry in Light of the Recent Financial Turmoil**

- ▶ How has the market downturn affected the biopower industry?
- ▶ Investing in the industry through equity vs. funding?
- ▶ Are governments still intending to go ahead with biopower subsidies in light of a potential recession?
- ▶ Potential avenues for financing future energy projects
- ▶ Raising capital across borders

Moderator: **Chris de Lavigne**, Global Vice President Consulting, **Frost and Sullivan**

Austin Arensberg, Business Development Manager, **Prime Energy Development**

William Byun, Senior Vice President, **Sindicatum Carbon Capital**

Takashi Hongo, Director General and Special Advisor, **Japan Bank of International Cooperation**

William Pazos, Managing Director, Carbon, **Standard Bank**

16.00 **Integrating Biomass into your Energy Portfolio**

- ▶ How can biomass be made to look attractive within investment portfolios?
- ▶ How does biomass fit in with the other renewable options?
- ▶ Financing growth for better returns

Chris de Lavigne, Global Vice President Consulting, **Frost and Sullivan**

16.30 **Biogas and biomass investment development and challenges for Palm Oil Mills in SE Asia**

- ▶ Finding proper investments requires development and market know-how
- ▶ Mill owner motives vary widely
- ▶ Deal structuring requires strong collaboration and local knowledge

Austin Arensberg, Business Development Manager, **Prime Energy Development**

17.00 **Financing of carbon assets to carbon credits**

- ▶ Which project types have carbon credits and how much are they worth?
- ▶ Should you set up CDM projects or settle for VER opportunities?
- ▶ What will the market look like post 2012 (demand/supply scenarios – will the early bird get the worm?)

Colin Steley, South East Asia Project Manager, Carbon Asset Development, **First Climate**

17.30 Close of day one & networking drinks

08.30 Welcome coffee

09.00 Chair's opening remarks

Arul Joe Mathias, *Managing Director, Renewable Cogen Asia*

Sustainable Feedstock Supplies

The Asian region has great potential when it comes to feedstock, mainly due to the large areas of agricultural land. However, having a continuous supply is still considered a major bottleneck. This session will look at some of the solutions for sustaining a continuous feedstock supply for biopower generation.

09.15 **The Food vs. Fuel Debate – Separating Fact from Fiction**

- ▶ The genesis of the food crisis in 2008
- ▶ 2nd generation feedstock supplies
- ▶ Innovative feedstock - what else can be used?

Sverre Tvinnereim, *Bioenergy Associate Professional Officer, Food and Agricultural Organisation*

09.45 **Strategies to Procure Feedstock at a Commercially Viable Price**

- ▶ Feedstock types – energy crop/bi-product/waste, homogenous/heterogeneous
- ▶ Emerging supply chains and costs
- ▶ Biomass buyers – location, scale, type, efficiency
- ▶ Biomass value – chemical and carbon
- ▶ Regional supply/demand - policy mechanisms
- ▶ Key strategic procurement considerations

Gordon Ewart, *Development Director, UltraGreen Biomass*

10.15 Networking refreshment break

10.45 **Sustainable Production of Bioenergy from Woody Biomass**

- ▶ Life cycle carbon emissions and energy use from wood as compared to other crops and energy sources
- ▶ Types and estimated amounts of woody biomass available
- ▶ Environmental and economic costs

Barrie May, *Experimental Scientist, CSIRO*

11.15 **Managing waste as feedstock**

- ▶ The implementation of biogas from POME
- ▶ The conversion of EFB to compost
- ▶ Markets for shell and fibre
- ▶ New technology for shell driven micro power using gasification
- ▶ Prospects for Government and Bilateral support

Steve Peters, *Chief Executive Officer, Stratcon Group of Companies*

11.45 Interactive discussion with session speakers

12.00 Networking Lunch

BioPower Technology

Innovative technologies are one of the drivers of the industry. Bigger, better and more efficient plants need to be built to allow for an increase in biopower production over the long term. This section will start off with an overview of available technologies before moving into more specific innovations within the areas of waste to energy and gasification.

13.30 **Looking at the Status of BioPower Generation Technology**

- ▶ Direct combustion-based systems
- ▶ Co-firing
- ▶ Producer gas/synthesis gas based systems
- ▶ Biogas/landfill gas systems

Sribas C. Bhattacharya, *President, International Energy Initiative*

14.00 **Case Study: Waste to Energy Programmes**

- ▶ A look at technologies in the areas of:
 - ▶ Municipal solid waste
 - ▶ Human/animal waste
 - ▶ Energy recovery from waste water
 - ▶ Overcoming the fermentation barrier

West Stewart, *President & Chief Executive Officer, PHILBIO*

14.30 **Landfill Gas vs. Biogas from bio-organic Waste in China**

- ▶ China's potential in the municipal solid waste arena
- ▶ Current treatments
- ▶ Improving the collection system to increase the potential production of biogas
- ▶ Engineered land filling
- ▶ Implementing an anaerobic mechanical biological treatment of the waste

Bernhard Raninger, *Professor, Shenyang Institute of Aeronautical Engineering, Hangkong University, China*

15.00 Networking refreshment break

15.30 **Biomass Based Distributed Generation in India**

- ▶ Biomass energy resources in India
- ▶ Biomass gasification technologies – potential and mainstreaming challenges
- ▶ TERI's experiences in biomass gasification technology
- ▶ Case studies from existing biomass gasifier based rural electrification and captive power generation projects
- ▶ Mainstreaming and the way forward

Sunil Dhingra, *Fellow and Area Convenor, The Energy and Resources Institute India*

16.00 **The Issue of Scale – Implementing Large Projects in China**

- ▶ Overcoming hurdles to implementation for biopower plants
- ▶ Finding sustainable feedstock all year round
- ▶ Reducing the size of the biomass and compacting the material
- ▶ Procurement of agricultural biomass handling, storage, protection against fire, weather and decay

Tay Wee Kwang, *Executive Director, China Enersave*

16.30 **Interactive discussion with 'BioPower Technology' speakers**

17.30 Closing remarks & close of conference

Clean Development Mechanisms form a crucial part of the Kyoto Protocol as well as any clean energy strategy. They provide financial and environmental rewards for all participants. This one day workshop will look at the latest developments with the CDM, the process for applications, case studies from the biopower market and opportunities for investment and development.

08.30 Registration & welcome coffee

09.00 **Introduction and the Latest Developments within the CDM Scheme**

- ▶ An overview of the CDM scheme
- ▶ The future of CDM and the Kyoto Protocol
- ▶ The environmental and economical advantages of such projects
- ▶ CDM opportunities within Asia
- ▶ Using biopower for carbon trading – CO₂ neutral and reduction of methane emissions

Michel Buron, Chief Executive Officer, **KYOTOenergy**

10.30 Networking refreshment break

11.00 **Carbon Credits and Biomass Power Plants**

- ▶ Which biomass power plants are eligible for carbon credits?
- ▶ What processes are needed to claim the credits?
- ▶ What carbon credits are generated from the different biomass plants?
- ▶ An overview of the approved biomass methodologies

Shane Spurway, Head of Carbon Banking Asia Pacific, **Fortis Bank**

12.30 Networking lunch break

13.30 **Developing a Successful CDM Project within the BioPower Sphere**

- ▶ The project cycle for CDM
- ▶ Financing models for CDM projects
- ▶ Risk management and analysis

Dinesh Babu, Chief Executive Officer, **The Carbon Rating Agency**, **IDEAcarbon**

15.00 Networking refreshment break

15.30 **Case Study: CDM in China**

- ▶ Current status of biopower in China
- ▶ The policy of the DNA
- ▶ An overview of the CDM projects currently being undertaken in China
- ▶ Future opportunities

Vernon Tan, Director, Business Development, **The AES Corporation**

17.00 Close of workshop



Sponsorship & Exhibition Opportunities

BioPower Generation Asia offers an integrated solution of brand positioning, business development and face-to-face networking opportunities with senior decision makers.

Connecting you with the right people

With a proven track record of delivering high calibre project developers, **BioPower Generation Asia** provides the perfect environment for you to do business with all companies involved in the biomass power generation value chain under one roof.

First class business opportunities

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- ▶ Enhance your company's brand visibility globally
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- ▶ Reinforce existing partnerships
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Green Power Conferences was established in 2003 by a team of professional, environmentally aware event experts and were the first to offer professionally organised events focusing on the sustainability sector. Over the last five years, we have welcomed over 8000 delegates from 82 countries and built a global database of 250,000+ contacts. Our expertise lies in producing high quality, interactive conferences that provide ample networking opportunities for delegates and partners alike. Green Power Conferences offsets the impacts of its commercial activities towards renewable energy projects. If you would like to partner with us, please contact maria.augestad@greenpowerconferences.com

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