

# Sustainable Energy Week

## Singapore 2007

12-15 June 2007, Orchard Hotel, Singapore

4 Leading Events, 1 Location

### Renewable Energy Finance Asia

12-13 June 2007

### Biofuels Markets Asia

12-13 June 2007

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### Carbon Markets Asia

14-15 June 2007

### Biogas Markets Asia

14-15 June 2007

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# Renewable Energy Finance Asia, 12-13 June 2007, Singapore

08.55 Registration & Refreshments

08.55 **Keynote Plenary Session: Major Trends in Sustainable Energy in Asia**

Session Hosted by:

10.20 **Leadership Roundtable:**

Representatives of the Government of Singapore and other leading figures from the region discuss the future opportunities for sustainable energy in Asia



11.00 Chairman's Introduction

**Mike Allen**, Financial Advisor, REEEP

15.10 Networking Refreshments and Exhibition Visit

## Mechanisms For Financing Renewable Energy In Asia

### Innovation & Scale Investing in Renewable Energy in Asia

11.15 **Key Developments in Renewable Energy Technology in Asia**

- What is relevant for the Asian market?  
- Where are we up to?

**Ka Keung Chan**, Managing Director, CLP Renewables

15.40 **Developing a Regional Strategy for CDM in Asia - Barriers, Opportunities and Potential**

- Focus on perspective on market for CER generating projects  
- Project considerations and market directions

**William Byun**, Managing Director Asia & Middle East, Climate Change & Technology Development, AES Asia and Middle East

11.35 **Investing in Renewable Energy in Asia - A Market Overview**

- Size of the market  
- Policy settings  
- Overall investment  
Speaker to be announced

16.00 **Raising Equity Financing - Asian Case Studies**

- What are equity investors looking for?  
- How to structure an investment opportunity to make it attractive?  
- Examples of equity investors active in the Asian Renewable Energy sector

**Frederic Crampe**, General Manager, The Renewable Energy Exchange Asia (Pte) Ltd, Singapore

11.55 **Executive Panel: Future Trends in Financing Renewable and Low-Carbon Technology in Asia**

- Innovation in debt structures  
- Deals and developments  
- Creating the winning deal  
- What deals are expected - what opportunities will arise?  
- Mergers & acquisitions and joint ventures - what's happening?  
Executive Panel:

**Anton Timpers**, Head, Trade & Commodity Finance, Rabobank Asia  
**Shane Bush**, Head of Renewable Energy, Standard Chartered Bank  
**Anand Prakesh**, Managing Director, FE Clean Energy  
**Kurt Metzger**, Chief Investment Officer, Infinity Energy  
**Joost Siteur**, Investment Officer, E&Co Asia

16.20 **Debt Financing for Renewable Projects: Liquidity vs Competition**

- The competitive effects of market liquidity  
- The pros and cons of domestic vs offshore debt  
- The usefulness of multilateral and export credit agencies; and  
- Why some recent projects successfully closed

**Peter Geldart**, Senior VP and Head of Structured Finance, Asia Pacific, Bayerisches Landesbank, Hong Kong &  
**Stefan Gerig**, Chief Investment Officer, Nordkap Bank

12.55 Networking Lunch and Exhibition Visit

14.10 **Case Studies: Innovation and Scale - Accelerating Developments of Renewable Energy in Asia**

A representative, **Conergy**

16.50 **Project Finance Case Study Ethanol Plant in Thailand: Sourcing Equity and Debt Financing in Today's Market**

- Biofuel projects' feasibility from a financier's perspective  
- Tapping equity financing for biofuels projects: what are investors looking for?  
- Sourcing senior and junior debt for biofuels projects: typical conditions and main hurdles

- Role of DFIs to promote investments in biofuels  
**Antoine Vigier**, Head Representative, Proparco (AFD - French Development Finance Institution)

### Policy Trends, Regulation & Risk Management

14.30 **Executive Panel: Policy Trends and Regulation How to create Investment Opportunities**

- Developing policy frameworks to facilitate the increased uptake of renewable energy in Asia  
- Regulation, subsidies, tax breaks & incentives - which are successful?  
- Do subsidies distort investment? Would a global carbon tax be more of an efficient way to close the gap between fossil and alternative fuels?  
- Foreign capital vs domestic capital  
- Overview of the Cebu Declaration of East Asian Energy Security - calls for extra investment into eco-friendly fuels  
- Risk management issues

Panellists:  
**Sharad Somani**, Associate Director, Global Infrastructure and Projects, KPMG Corporate Finance, Singapore  
**Antolina Butalid**, First VP, Development Banking, Development Bank of the Philippines  
**Mark Fogarty**, CEO and Director, Greenbank Capital  
**Christopher Tung**, Partner, Mallesons Stephen Jacques

17.10 *The following expert panel will discuss the above case studies and pose questions to the speakers and audience*

**Expert Panel:**

**Mike Allen**, Financial Advisor, REEEP  
**Ka Keung Chan**, Managing Director, CLP Renewables  
**Christopher Tung**, Partner, Mallesons Stephen Jacques

17.25 Close of Day One & Networking Cocktail Reception

Now in its 3rd year, Renewable Energy Finance Asia will bring together international renewable energy experts to identify finance trends, examine successful case studies, deals, structures and solutions needed to stimulate industry growth.

This annual meeting place for Asia's renewable energy finance industry will combine first class presentations with excellent networking opportunities. Over 250 delegates from 28 countries have attended to date.

"a wonderful conference ... very good mix of attendees ... very stimulating" W.B., Byun & Co.

# Renewable Energy Finance Asia, 12-13 June 2007, Singapore

Day Two, 13<sup>th</sup> June 2007

08.30 Refreshments

09.00 Chairman's Introduction:  
**Mark Fogarty**, CEO and Director, **Greenbank Capital**

## Financing Renewable Energy Start-Ups & New Technology

09.15 **How to increase Investment in Clean Technologies in Asia Successful Partnership Strategies**  
**Russell Pullan**, Director, **Nomura International**  
*(awaiting final confirmation)*

09.35 **Executive Panel: Challenges faced when raising Venture Finance**  
- Risks and returns from investments  
- Successful partnership strategies  
**Baldave Singh**, Asian Editor, **New Energy Finance**  
Plus other invited panellists

## Investing In Sector Development Renewable Energy Project Development And Finance

10.00 **WIND Project Development and Finance - Case Studies**  
- Find out why and how Asia is to become the new hotbed for the adoption of wind technology  
  
*A series of 15 minute case studies will be followed by questions and discussion from our expert panel*

**P N Krishnan**, Director-Finance, **Essar Power**

**Erik Sejersen**, Project Finance Manager, **Vestas Asia Pacific**

**Christoph Loslein**, Consultant to **LACPEF (London Asia Chinese Private Equity Fund)** and CEO of **AsiaWind**

*Our expert panel will discuss the above case studies and pose questions to the speakers and audience*

**Expert Panel:**

**Mark Fogarty**, CEO and Director, **Greenbank Capital**  
**Christopher Tung**, Partner, **Mallesons Stephen Jacques**

11.00 Networking Refreshments and Exhibition Visit

11.30 **SOLAR Project Development and Finance - Case Studies**  
  
*A series of 15 minute case studies will be followed by questions and discussion from our expert panel*

*Our expert panel will discuss the above case studies and pose questions to the speakers and audience*

**Expert Panel:**

**Mark Fogarty**, CEO and Director, **Greenbank Capital**  
**Christopher Tung**, Partner, **Mallesons Stephen Jacques**

12.30 Networking Lunch and Exhibition Visit

13.30 **Bio-Energy: Biofuels and Biomass Financing and Investment**

*A series of 15 minute case studies will be followed by questions and discussion from our expert panel*

**Graham Stowell**, MD, **Bronzeoak** *(awaiting final confirmation)*

**Antonio Lopez-Abello**, **Credit Suisse** *(awaiting final confirmation)*

*Our expert panel will discuss the above case studies and pose questions to the speakers and audience*

**Expert Panel:**

**Mark Fogarty**, CEO and Director, **Greenbank Capital**  
**Christopher Tung**, Partner, **Mallesons Stephen Jacques**

14.30 **Geothermal Project Development and Financing**  
**Terry Kallis**, Managing Director, **Petratherm Australia**

14.45 **Mini-Hydro/Hydropower Project Development and Financing**  
Speaker to be announced

15.00 **From Mini-Hydros to a Portfolio Approach to Distributed Generation Opportunities**

- Giving the macro picture on the power sector in Sri Lanka  
- Mini-hydro development under RERED initiative  
- PADGO initiative and movement towards technology neutral platform  
- Replication possibilities in other countries in S.E.Asia

**Sandeep Kohli**, Senior Project Officer, **IFC**

*Our expert panel will discuss the above case studies and pose questions to the speakers and audience*

**Expert Panel:**

**Mark Fogarty**, CEO and Director, **Greenbank Capital**  
**Christopher Tung**, Partner, **Mallesons Stephen Jacques**

15.30 Refreshments and Exhibition Visit

15.50

## Policy Think Tank Session:

### Key Issues For Scaling Up Investment in Renewable Energies

- To what extent is policy driving investment in the sector?
- What is working well? What is not?
- What are the key policy issues for increasing deal flow?
- How do the above issues impact the finance community?
- What are the national policy priorities
- Are there issues for regional cooperation that would facilitate investment?

Hosted by REEEP



or: Closing Networking Session

17.30 Close of Conference

## Confirmed Speakers Include:

**Ambono Janurianto**, Chief Executive Officer, **PT Bakrie Sumatera Plantations**, Indonesia  
**Danilo Coronacion**, President & Chief Executive Officer, **CIIF Oil Mills Group**, Philippines  
**Srinivas Prasad Moturi**, Chairman & Chief Executive Officer, **Cleancities Biodiesel**, India  
**Bhaskar Chalasani**, Chief Executive Officer, **Naturol Bioenergy**, India  
**Andy Fischer**, Managing Director, **Australian Farmers Fuel (SAFF)**, Australia  
**Sarju Singh**, Managing Director, **D1 Oils**, India  
**Tian Ching Long**, Director, **Vance Bioenergy**, Singapore  
**U.R. Unnithan**, Executive Director, **Carotino**, Malaysia  
**Clovis T. Tupas**, Operations Manager, **Philippine National Oil Company Alternative Fuels Corporation**, Philippines  
**Albert Magalang**, CDM Project Evaluator/Environmental Management Specialist, **Philippine DNA**, Philippines  
 Senior Representative, **Biodiesel Association of India**, India  
 Senior Representative, **EcoSecurities**

## Preliminary Agenda

08.55 Registration & Refreshments

08.55 **Keynote Plenary Session: Major Trends in Sustainable Energy in Asia**

Session Hosted by:

10.20 **Leadership Roundtable:** Representatives of the Government of Singapore and other leading figures from the region discuss the future opportunities for sustainable energy in Asia



11.15 Chairman's Opening

14.25 **Setting Up a Large Scale State of the Art Biodiesel Production**

- Full scale commercial production July 2007
- 250,000 tonnes per annum
- Feedstocks - Jatropha and Pongamia plantations
- Impacts for the rural economy
- Progress update and case study

## Setting the Framework for Biofuels Markets in Asia - Regulation, Policy, Strategy, Financial Incentives

11.30 **Balancing Biofuels Developments with Feedstock Concerns**

14.45 **The CDM & Biofuels**

- Developing countries using GHG trading and the CDM to foster development

11.50 **The Philippines Biofuels Act**

With the passing of the Philippines Biofuels Act in December 2006, all gasoline products in that country should have an ethanol content of at least 5% within two years. All diesel vehicles should use a minimum 1% biodiesel blend within three months of the law's effectivity. Coconut oil is being used as the main feedstock to achieve this. The mandated blend will rise to 2% for biodiesel after two years, and to at least 10% for bioethanol after four years. It has been suggested that the bill will generate a guaranteed annual demand of between 200m and 400m litres of ethanol. To meet this expected ethanol demand at least 14 ethanol production facilities with capacities of at least 100,000 litres a day need to be established. Expected to save the country more than PHP35bn (US \$ 0.72bn) worth of oil imports annually.

15.05 **Interactive Discussion with Session Speakers**

15.15 Networking Refreshments and Exhibition Visit

12.10 **Executive Panel: Creating a Progressive Biofuels Framework**

- Creating competitive Biofuels markets
- New government policies and support
- Regulation & taxation: Can European style tax incentives and policy be key to biofuels development in ASEAN countries?
- Issues of water and energy recovery and reuse
- Can investment in agricultural biotechnology research help meet their growing needs for food, feed, fibre and fuel?

## Feedstock Strategies & Biofuels Sustainability

16.00 **Case Study - Large Scale Production**

16.20 **Feedstock Options in India**

- Jatropha as a biodiesel feedstock
- Strong planting activity in India in 1Q 07, plant relationships are also being consolidated for more extensive planting in South East Asia
- Learning's from other markets
- Molasses is currently the main feedstock for bioethanol in India

12.45 Networking Lunch and Exhibition Visit

16.40 **Executive Panel: Sustainable Biofuels in Asia**

- Each speaker will give a 5 minute case study, followed by an interactive discussion - With global palm oil prices expected to rise further in 2007 and concerns over sustainability and potential deforestation causing a publicity backlash from environmentalists and in some cases delaying plants, what alternative feedstock options are there?
- Supply and demand
- Rural development: Is feedstock from the local community utilized to produce Biofuels that are then used for running local machines or generating electricity for local usage or for sale into the local grid? Will the farmers benefit?

14.05 **Assessing the Risks of Investing in the Biodiesel Industry**

17.15 Close of Day One & Networking Drinks

# Biofuels Markets Asia, 12-13 June 2007, Singapore

Day Two, 13th June 2007

08.30 Refreshments

09.00 Chair's Opening Remarks

12.05 **Bioethanol Production in China**

12.20 **Interactive Discussion with Session Speakers**

12.35 Networking Lunch and Exhibition Visit

## Biofuels Production Case Studies Showcase

### Biodiesel

09.05 **The Value of Vertical Integration**

- The world's first integrated Palm Biodiesel plant
- First in the world to commercialize winter grade Palm Biodiesel
- A player in the Palm Biodiesel business since 2002
- Current Palm Biodiesel capacity 60,000 Mt/yr, expanding to 180,000 Mt/yr by July 2007
- Regular & winter Palm Biodiesel comply to EN 14241 & ASTM D 6751 specs

09.20 **Developing a Scalable Business Model**

- Undertaken extensive, independently verified, market research and due diligence into the viability of biodiesel plants in Australia, the United States and Singapore
- Darwin plant starts production in early 07
- Strategic relationships with key biodiesel industry participants
- Exporting vs. sale onshore - logistical considerations

09.35 **Introducing Biodiesel to India**

- Integrated Biofuels plant
- Feedstock's include oils derived from Palm, Soya & Jatropa
- Domestic and imported
- Envisaged capacity of 100,000 tonnes per year
- Co products

09.50 **Biodiesel Production, Marketing & Trading**

- Operations in Singapore & Malaysia
- Biodiesel, an integral part of the alternative energy solution
- Feedstocks

10.05 **Biodiesel Production & Technology Choices**

- Production - start up experiences in Indonesia
- Modular technology - enabling scalability
- Unique experiences from the first foreign investment to achieve commercial operations during these challenging times of fluctuating commodity prices in the biodiesel industry in Indonesia
- Integration with upstream assets

10.20 **Interactive Discussion with Session Speakers**

10.35 Networking Refreshments and Exhibition Visit

### Bioethanol

11.35 **The Scale Decision - Large Scale vs. Small Scale Production**

11.50 **Bioethanol Life Cycle Assessment**

### Biofuels Downstream Logistics

14.05 **Distribution, Wholesale & Retailing**

- One of the leaders in downstream and production of Biofuels in Australia, retail network selling nearly only green fuels (some LPG, 10% methane). Carbon neutral fuel as sequester daily sales of fuel equivalent through tree planting.
- Australian motorists appear to be warming to the idea of using Biofuels, latest polls in NSW indicate, most support plans but many are still concerned about engine damage.

14.25 **Logistics Considerations for the Sales of Biofuels**

14.45 **Interactive Discussion with Session Speakers**

### Impacts on Petroleum & Automotive Industries

15.00 **Adapting to Become a Prominent Alternative Fuel Producer**

- Alternative Fuels Corporation subsidiary formed
- Taking the lead in Biofuels development
- Intends to establish a jatropa based Biofuel refinery with a capacity of 1m metric tonnes, a 700,000 hectare jatropa plantation for feedstock, a fuel refinery with a capacity of 50,000 barrels per day from low-rank coal and a Biofuel central terminal facility

15.20 **Reducing Car Emissions - The Role of Biofuels**

- Adaptations required
- Consumer opinions
- Engine impacts

15.40 Networking Refreshments and Exhibition Visit

### Next Generation Biofuels

16.20 **Cellulosic Biomass Developments**

16.40 **Producing Second Generation Biofuels**

17.00 **Interactive Discussion with Session Speakers**

17.15 Close of Conference

#### Gold Sponsor:

ECO SECURITIES

EcoSecurities is one of the world's leading companies in the business of originating, developing and trading carbon credits, and providing expert climate change advisory services to corporations and governments throughout the world. EcoSecurities structures and guides greenhouse gas emission reduction projects through the Kyoto Protocol, working with both the project developers and the buyers of carbon credits.

Established in 1997, EcoSecurities has been involved in the development of many of the global carbon market's most important milestones, including developing the world's first Clean Development Mechanism project to be registered under the Kyoto Protocol, and the first to be issued with carbon credits. In 2006, EcoSecurities was voted 'Best CDM/JI Project Developer' by both Point Carbon and Environmental Finance Magazine, and EcoSecurities' consultancy division has been voted the world's leading greenhouse gas advisory firm over the last six years by reader surveys conducted by Environmental Finance Magazine.

## Day One, Thursday 14 June

08.30 Registration and Refreshments

09.00 Chairman's Opening Remarks

## Evolution of International Carbon Markets

09.15 **Global Market Context and Developments**  
- Overview on the supply, demand, prices in the various carbon markets  
- Assessing EU ETS as key driver of global markets  
- Focus on CDM/JI  
- How is EU ETS impacting China and Asia?  
**Arne Eik**, Senior Analyst, **Point Carbon**

09.45 **Spotlight on Korea**  
- Proposed Korean emission trading scheme and impact on power generators  
- Opportunities created by South Korea becoming an Annex 1 country  
**Michael Hennig**, Director, **Carbon CDM Korea (Korea)**

10.15 **Carbon Markets and Opportunities in Asia**  
- A national overview of CDM and project development  
- Evolution of national emissions trading schemes  
- 2010 and beyond  
Speaker to be announced

10.45 Interactive Discussion with Session Speakers

11.00 Networking Refreshment Break and Exhibition Visit

## Finance & Risk Management

14.15 Executive Panel: **Project Financing**

*A series of 10 minute presentations will be followed by an interactive panel discussion*

- Creative financing options for early stage projects
- Sourcing and structuring finance for carbon projects
- Mitigating risks & measuring costs
- Strategies and trends in current investment
- Assessing the value of CERs
- Using carbon contracts as assets

**Abd Karmali**, Managing Director - Europe, **ICF International**

**Justin Guest**, Investment Advisor, **EEA Fund Management**

A representative, **Asian Development Bank**

15.15 Networking Refreshment Break and Exhibition Visit

16.00 **Countering Concerns on Delivery of Credits**  
- As the window to develop new projects is fast closing, the focus of risk lies in assessing underperforming existing projects eg. landfill gas projects  
- Will the projects perform as designed on a yearly basis?  
- Will they generate credits in time?  
Speaker to be announced

16.20 **Risk Management Panel Discussion**  
- How will markets develop post 2012?  
- Predictions of how Voluntary Emissions Market will develop  
- Risks of monitoring projects to the end - understanding the importance of ensuring the right processes are in place in Asia  
- Country risk: setting up projects in countries which lack firm policy and regulatory frameworks  
- Role and responsibility of government in managing risk  
- Financial risks  
- Reputation risk for buyers  
Panelists to be announced

17.00 Close of Day One & Networking Drinks

## Carbon Pricing & Trading

11.40 **Executive Panel: Carbon Pricing & Trading**  
*A series of 10 minute presentations will be followed by an interactive panel discussion*  
  
- Impacts of NAP2 and linking directive caps on price of Co2  
- Assessing future supply and demand of CERs - what impacts these?  
- Proliferation of carbon funds: evaluation of funds performance and criteria  
- Simplifying processes for trading CERs  
- Making process easier for local sellers in China  
- Price floors/price ceilings - interpreting price signals  
- Encouraging investment in carbon market  
- Managing an elongated supply chain  
- Tracking carbon price through uncertainty

**Francois Joubert**, Head of Carbon Trading, **EDF Trading**

**Laurent Segalen**, Investment Manager, **European Carbon Fund/IXIS**

Additional panelists to be announced

13.10 Networking Lunch and Exhibition Visit

Asia is fast becoming one of the world's most exciting carbon markets. Since last year's Carbon Markets Asia 2006 event over 140 new CDM projects have been listed across the region and the pace does not look set to slow.

As the market expands at an accelerated rate, the 3rd annual Carbon Markets Asiaconference will bring together the key players in this vibrant market in a forum of debate, analysis and learning.

In 2006 over 120 experts from 19 countries attended.

"Thanks for organising such a **fantastic conference** - it really **helped my business with the great people that you managed to attract** - all of them people i needed to meet, and they don't always go to conferences, so you did very well." B.M., Carbon Bridge, Cambodia

08.30 Refreshments

## Project Host Session

### 09.10 CDM Project Host Panel

*A series of 10 minute presentations will be followed by an interactive panel discussion*

- Importance of understanding carbon buyers requirements
- Technical, social, environmental, economical and financial considerations
- Assessing specific projects, challenges and opportunities
- Strengths and weaknesses of CDM market in Vietnam/Philippines
- CDM potential and national CDM institutions
- Current projects and new PDDs in renewable energy sectors (hydropower and biogas sectors)
- Could the approval process of CDM registration be speeded up?
- How can the quality of approved methodologies be improved?

**Dang Hong Hanh**, Director - International Relations, **Vietnam Energy and Environmental Consultancy Joint Stock Company**, Vietnam

**Albert Magalang**, CDM Project Evaluator, **Philippine DNA**, Philippines

Additional panelists to be announced

10.15 Networking Refreshment Break and Exhibition Visit

## Small Scale Projects from the Region

*This session will incorporate a series of small scale case studies from India, the Mekong region and other Asian countries.*

### 14.00 Project 0298: 4.5 MW Biomass based Power Generation unit of Malavalli Power Plant

- Key areas of challenge facing small scale project developers
- Regulatory and policy barriers in the country, start-up costs, risks
- Practical insights into how the CDM mechanism is working effectively

- Best practice case studies from India, Cambodia, Laos & Thailand  
**Krishan Kolluru**, Project Manager, **Malavalli Power Plant**, India

### 14.25 Status of CDM in the Mekong region (Cambodia, Laos, Thailand and Vietnam)

- Focus of projects Thailand
  - Gold Standard Biogas project in Cambodia
  - Unique solar project in Laos under the Voluntary Carbon Standards.
- Bridget McIntosh**, Founder, **Carbon Bridge**

14.50 Additional case studies to be announced

15.15 Interactive Discussion with Session Speakers

15.30 Close of Conference

## Large Scale CDM Project Case Studies

*This session will incorporate a series of 3 large scale case studies from Malaysia, Indonesia and China.*

### 11.00 Project 0323: Krubong Melaka LFG Collection & Energy Recovery CDM Project

- Practical examples of project success
- Managing the project cycle
- Sustainability and social issues
- Unique experiences in developing CDM

**Ho De Leong**, Group Manager, **Southern Waste Management**, Malaysia

### 11.25 Project 0526: Indocement Blended Cement Project

- Practical examples of project success
- Managing the project cycle
- Sustainability and social issues
- Unique experiences in developing CDM projects

**Oivind Hoidalén**, Executive Director, **PT Indocement Tunggal Prakarsa**, Indonesia

### 11.50 Project 0378: Xiaogushan Hydropower Project

- Practical examples of project success
- Managing the project cycle
- Sustainability and social issues
- Unique experiences in developing CDM

**Zhu Xingjie**, President, **Xiaogushan Hydropower Company**, China

12.15 Interactive Discussion with Session Speakers

12.30 Networking Lunch and Exhibition Visit

## Future Dates for Your Diary

### Carbon Markets USA

11-12 September 2007, San Francisco

### Biodiesel Congress

19-20 September 2007, Buenos Aires

### Next Generation Biofuels Congress

4-5 October 2007, Amsterdam

### Carbon Markets India

October 2007, Mumbai

### Biofuels Markets Africa

5-6 November 2007, Cape Town

### Carbon Markets Africa

7-8 November 2007, Cape Town

### World Biofuels Markets 2008

12-13 March 2008, Brussels

For further information about attending, sponsoring or speaking at the above events, contact: [annie.ellis@greenpowerconferences.com](mailto:annie.ellis@greenpowerconferences.com)

## Day One, 14<sup>th</sup> June 2007

08.30 Registration and Refreshments

09.00 Chairman's Introduction:  
**Peter Boisen**, Chairman, **ENGVA (European Natural Gas Vehicle Association)**

### Keynote Session: Global Biogas Trends & Asian Market Opportunities

09.05 **Case Study: Biomethane as a Transport Fuel - A Global View**  
Potential, investment and production costs for the Asian Market  
**Peter Boisen**, Chairman, **ENGVA**

09.30 **Keynote Case Study : New Developments in Medium and Large Scale Biogas Technology in China**  
- How large and middle scale biogas plants are becoming the emphasis of the biogas industry in China  
- Introduction to the technologies used in large and middle scale biogas plants in recent years  
**Mr. Xiang Xin**, Centre of Energy and Environmental Protection (CEEP), **China Ministry of Agriculture (MOA)**

09.55 **Case Study: Waste to Biogas as an Alternative Urban Energy Source**  
- Energy resource management  
- Alternative urban energy sources  
- Singapore's home grown food waste to biogas technology  
**Rene Glauser**, Project Manager, **Lionapex Engineering Pte Ltd**  
**Dr J Y Wang**, Associate Professor, **NGU (Nanyang Technical University)**, Singapore

10.20 **Case Study: Biogas Recovery and Utilisation in Asia**  
**West Stewart**, Executive Vice President, **Asia BioGas**, Thailand

10.45 Networking Refreshment Break & Exhibition Visit

11.15 **Case Study: New Generation of Biogas Plants for Palm Oil Mill Effluents for Gas, Electricity and CER Marketing**  
- Case Study from Latin America  
- Results of the Eecopalsa project and Espino project in Peru  
- Biogas used for boilers of a refinery and biodiesel plant  
- Lessons learnt  
**Philippe Conil**, **Biotec**

### Domestic Biogas: Capturing the Market in Asia

11.40 **Biogas for Lasting Poverty Relief: Examples from a Chinese NGO in Yunnan and Tibet**  
- Connection between poverty and poor resource use (case studies of Lijiang and Tibet)  
- GEI's upfloating biogas technology as an integrated energy-income-health giving system  
- GEI's financial mechanisms for supporting sustainable development in the rural economy (farmers' cooperatives for biogas/organic agriculture in Yunnan/Tibet)  
**Lila Buckley**, Assistant Exec, **GEI (Global Environmental Institute)**

12.00 **Biogas as an Important Renewable Energy Carrier Case Studies: Vietnam, Nepal and Laos**  
**Christopher Kellner**, **SNV**, Nepal

12.20 Networking Lunch & Exhibition Visit

### Encouraging Biogas Market Growth Regulation, Tax, Fiscal Incentives & Subsidies

13.30 **Executive Panel: Encouraging Biogas Market Growth in Asia**  
Panellists  
**Heinz-Peter Mang**, **Chinese Academy of Agricultural Engineering (CAAE) & IEEP (Institute of Energy and Environmental Protection)**  
**Mr. Xiang Xin**, Centre of Energy and Environmental Protection (CEEP), **China Ministry of Agriculture (MOA)**  
**West Stewart**, Executive Vice President, **Asia BioGas**, Thailand  
**Justin Guest**, CDM Investment Advisor, **EEA**, London

### Investment & Financing Of Biogas

14.00 **Case Study: Successful Financing Strategies and Investment Trends in Biogas in Asia**  
Speaker to be announced

14.25 **Biogas Investments as a Profitable Business in China**  
- Technical, social, economic, legal frame conditions  
- Limitations, benefits and successful strategies  
- Promotional partnerships  
**Heinz-Peter Mang**, **Chinese Academy of Agricultural Engineering (CAAE) and IEEP (Institute of Energy and Environmental Protection)**

14.50 Networking Refreshment Break & Exhibition Visit

### Carbon Finance & CDM Opportunities

15.20 **Application of Carbon Finance to Biogas Developments**  
- Sources of carbon finance and their ability to meet the needs of project developers in project finance  
- Examples of applications of carbon financing  
- Expectations of various stakeholders; project sponsor, project hosts, and carbon financiers  
**Justin Guest**, CDM Investment Advisor, **EEA**, London

15.45 **Case Study: Nepal's Biogas Initiative - First CDM Project in Nepal**  
Speaker to be announced

16.10 **Asian Biogas CDM Case Studies**  
**Agus Sari**, Regional Director, Southeast Asia, Country Director, Indonesia, **EcoSecurities**

16.35 **Promoting Investments for Renewable Energy and Biogas through Carbon Financing in China**  
- Great potential for CDM Projects, which can deliver significant local economic and sustainable development co-benefits  
- China needs technology transfer and financial support from developed countries Chinese and foreign enterprises face barriers to CDM development and implementation in practice  
**Dr. Markus Schwegler**, Centre for Environmentally Sound Technology Transfer (CESTT), Administrative Centre for China's Agenda 21 (ACCA21), **Chinese Ministry of Science and Technology**

17.00 Close of Day One

# Biogas Markets Asia, 14-15 June 2007, Singapore

Day Two, 15<sup>th</sup> June 2007

08.30 Refreshments

09.00 Chairman's Introduction:  
**Heinz-Peter Mang, Chinese Academy of Agricultural Engineering (CAAE) and IEEP (Institute of Energy and Environmental Protection)**

## Biogas Applications

09.15 **Case Study: Biomethane as a Vehicle Fuel in Asia**  
- Case study: building a biomethane production plant in the City of Wuhan, China - biomethane to be produced is intended to be used as a vehicle fuel

**Ola Rosen, Project Leader, Carl Bro International**  
(awaiting final confirmation)

09.40 **Case Study: Biogas Capable Vehicles and Infrastructures**  
**Jörgen Ejlertsson, Associated Professor, Manager R & D, Scandinavian Biogas Fuels AB**

10.05 **Experience with Biogas Engines for Combined Heat and Power Generation**

**Uwe Schmidt, MAN**  
(awaiting final confirmation)

10.30 Networking Refreshment Break & Exhibition Visit

## Waste To Energy In Asia Technology Trends & Business Opportunities

11.00 **Biogas from Biodegradable Municipal Waste - Potential and Business opportunities in China**

- Biogas potential from municipal solid waste is still an underestimated resource  
- What does the utilisation of clean bioorganic municipal wastes (BMW) from source separation for biogas and clean compost production offer China?

**Prof. Dr. Habil Bernhard Raninger, Shenyang Institute of Aeronautical Engineering (Hangkong University), ICEEE - Institute of Clean Energy and Environmental Engineering Waste Management, Shenyang, China**

## Commercial Case Studies

11.25 **Covered In Ground Reactor (CIGAR) Systems for Wastewater Treatment with Biogas Recovery**

This presentation will provide a case study on the technical and economic operation performance of the Khorat Waste to Energy (KWTE) project that is designed to deliver close to 100,000 m<sup>3</sup> biogas/day from starch processing wastewater using a novel, innovative, low cost anaerobic digester design & construction approach. Areas covered in the presentation include:

- Technological breakthroughs
- GHG emission abatement and energy production
- Technical operation issues and opportunities
- How to maintain energy supply security for the host
- Energy pricing issues
- Contingency planning for capital and operating cost

**Jürgen Thiele, Environmental Biotechnologist, Waste Solutions Ltd**  
New Zealand &  
**Jeffery Dickinson, Asia Regional Manager, E&Co Asia**

11.45 **Profiting from Waste - Huizho WTE Plant**  
Speaker to be announced

12.05 Interactive Discussion Session

12.20 Networking Lunch Break & Exhibition Visit

## Biogas Developments - Looking To The Future

13.30 **Biogas Crops - Technological Overview of Biogas Production from Energy Crops and Biowaste**  
Speaker to be announced

13.55 **Optimised Anaerobic Digester Technology for Biogas Recovery from Palm Oil Mill Effluent**

- Characteristics of palm oil mill effluents (POME) and appropriate anaerobic digester technologies for POME biogas capture
- High lights of a proven continuous-flow stirred tank (CSTR)-based anaerobic digester system in Malaysia for efficient biogas recovery from POME treatment
- Current development and prospects of POME biogas recovery and utilisation in Malaysia and the region

**Soo Loong Tong, Novaviro Technology, Malaysia**

14.20 Networking Refreshments Break and Exhibition Visit

14.45 **Optimising Plant and Energy Utilisation and Scope for Future Biogas Development**  
Speaker to be announced

15.10 **2<sup>nd</sup> Generation Biogas - Thermal Gasification of Biomass**  
Speaker to be announced

15.35 Close of Conference

Asia's first international Biogas Markets forum will bring together biogas experts from around the world to share experiences and discuss ways to drive biogas growth in Asia.

Collocated with Carbon Markets Asia, this unique event will provide unparalleled networking and learning opportunities for:

- companies looking for technical know-how to develop biogas projects
- companies looking for finance to develop biogas projects
- biogas technology / solution providers looking for new customers
- banks looking to invest in biogas projects
- carbon credit buyers looking for new projects
- analysts / consultants researching Asian biogas markets

Over 160 executives have attended the Biogas Markets series to date, including:

Asia BioGas \* ASJA Ambiente \* Babcock and Wilcox Volund \* Bank of Ireland \* Biofuels Korea \* Bio-SNG Consortium \* Biotec \* Bioverda \* BOC/Linde Group \* Byun & Co \* Cargill \* Climate Change Capital \* Conergy \* Dalkia \* Dexia Credit Local \* DLA Piper \* Ecofys \* EcoSecurities \* Endress + Hauser Flowtec \* ENER-G \* ENGVA \* Eon \* Erdgas Ostschweiz \* European Commission \* European Investment Bank \* Finnish Biogas Association \* Gasmobil \* Gasum \* GE Jenbacher \* Goteborg Energi \* Greenfinch Ltd \* Hardstaff Group \* HG Capital \* International Finance Corporation \* Investec Bank \* IVECO \* Jacobs Babbie \* Lille Metropol \* Norton Rose \* Novaviro Technology \* Organic Power \* Overgas \* Pirelli Ambiente \* Praj Industries \* RenGen Energy \* Schmack Biogas \* Svensk Biogas \* Veolia Environment \* VNIIGAZ \* Vogelbusch \* Wartsila \* Waste Solutions \* Xergi

# Meet New Customers & Generate Sales Leads

- ▶ The combined 2006 events had over **450 senior executives** and international media in attendance - **over 650 are expected in 2007**
- ▶ Sponsor the 2007 event now and take advantage of a 4 month pre-event promotional campaign, exposing your brand on 200,000 marketing pieces
- ▶ Gain an exceptional amount of presence from on site promotion/publicity, exhibition stand and meeting room options

## Stand out from the crowd - *it's time to do business*

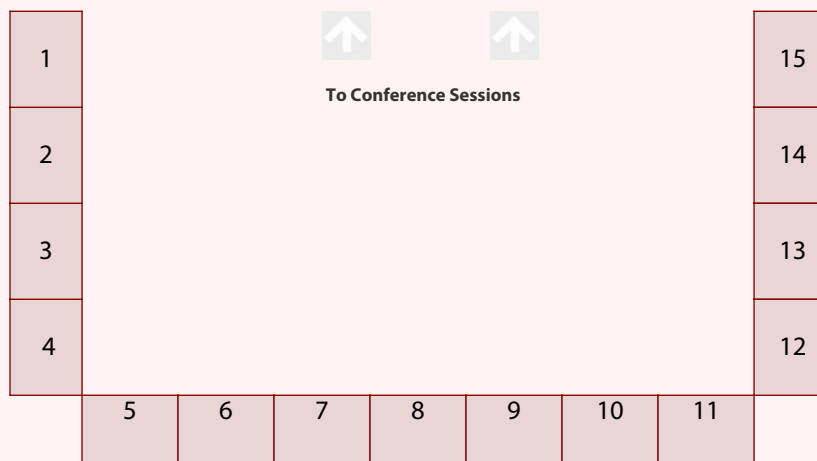
Please contact Ben Leighton to discuss solutions that best meet your marketing objectives:

Tel: +44 20 7801 6333 or email [ben.leighton@greenpowerconferences.com](mailto:ben.leighton@greenpowerconferences.com)

### Exhibition Floorplan

12 & 13 June:  
**Renewable Energy Finance Asia & Biofuels Markets Asia**

14 & 15 June:  
**Carbon Markets Asia & Biogas Asia**



### Event Histories

#### Renewable Energy Finance Asia

2005: 100 Participants

2006: 150 Participants

#### Biofuels Markets Asia

2006: 220 Participants

*Over 2200 delegates have attended the international Biofuels Markets Conference Series*

#### Carbon Markets Asia

2005: 70 Participants

2006: 120 Participants

#### Biogas Markets

2006: 120 Participants (European Edition)

### Feedback from Past Sponsors

"I think it was a great success, **lots of biz coming out of it**" TFS

"Huge thanks...the conference went really well and we as a firm are **very pleased with the cross section of attendees**" Malleasons Stephen Jaques

"Biofuels Markets was a success, we have had a lot of **interesting & high level contacts**" Desmet Ballestra

"It was good to exhibit at this conference and to make new contacts"  
G.A.S Energietechnologie

## Why Attend?

- >>> Sustainable Energy Week, Singapore 2007 combines 4 leading regional events, offering unparalleled networking opportunities for the Asian sustainable energy industry
- >>> **600+** attendees are expected to participate and do business during the week's events
- >>> No other event in the region draws such a large crowd of high level, international executives
- >>> Unrivalled content and networking opportunities for excellent value
- >>> Emissions generated from the event will be offset against local renewable energy projects

## Feedback from Some of Our Past Delegates

"From what other more seasoned delegates & journalists were saying, they consider your conferences to be **virtually unbeatable in content and in organisation**" W.C., Newsbase

"Thanks to you and your team for **another good show**" J.N., Marsh

"I thought this conference was **really excellent** and the fact that a lot of people were still hanging around at the end is a good sign of the networking opportunities they get" K.H., Business Council for Sustainable Energy

"a wonderful conference ...very good mix of attendees...**very stimulating**" W.B., Byun & Co.

"Thanks for organising such a **fantastic conference** - it really **helped my business with the great people that you managed to attract** - all of them people I needed to meet, and they don't always go to conferences, so you did very well." B.M., Carbon Bridge, Cambodia

"I really found it a useful platform to meet other people involved in the sector"  
MW, Triodos Fund Management

"... a lot of useful information was offered. The opportunity to chat with others having an interest in Asian Renewable was excellent" C.M., Wind Pro Insurance

"...one of the **most useful such forums** for some time" M.A., REEEP

"**Very impressed** with the quality" K.A., ICF Consulting

"I found it to be both a **valuable learning and business networking** opportunity" B.L., LP Power Consult

"I found myself very much satisfied with the Speakers and could generate enough contacts for the supply of equipment, technology and also other value added resource tie-ups like Carbon Credits etc."  
Nandan Biomatrix, India

"Thought the conference was **very valuable**" T.D., Meridian Energy NZ

"The presentations and discussions during the conference were **great lessons** to us." C.D., Dunwell Group

"Well organised and **good participants**." A.R., Roaring 40's

"Thanks for an **excellent set of conferences**." D.H., Submedia Net

"I think it was a great success, **lots of biz coming out of it**" L.M., TFS

## 32 Countries Represented in 2006

Australia, Belgium, Canada, China, Denmark, Ecuador, Finland, France, Germany, Hong Kong, India, Indonesia, Israel, Italy, Japan, Malaysia, Nepal, New Zealand, Pakistan, Philippines, Poland, Qatar, Singapore, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, The Netherlands, UK, USA

## Who Will You Meet?

Past attendees include:

ABN AMRO  
AES  
ANZ Investment Bank  
Apax  
Asia Carbon  
Asian Development Bank  
Azure International  
Baker & McKenzie  
Baring Private Equity  
BP  
BNP Paribas  
Boeing  
Bronzeoak  
Chevron Texaco  
Chinese Renewable Energy Association  
CLP Power Asia Limited  
Conergy  
Credit Suisse  
DEG  
Deutsche Bank  
Development Bank of Japan  
Dexia Bank  
DLA Piper  
Ernst & Young  
FE Clean Energy Asia  
GE  
Hitachi  
HSH Nordbank  
IFC  
Japan Carbon Finance  
Jardine Lloyd Thompson  
J-Power  
Koratec Ethanol Co  
Mallesons Stephen Jaques  
Marsh  
Merrill Lynch  
Merritt Advisory Partners  
Mitsubishi Securities  
Mitsui Babcock  
Mott MacDonald  
Noble Group  
Pacific Biodiesel  
Pakistan Alternative Energy Board  
PB Power  
Petroasian Energy  
Qatar Fuel Additives Company  
Rabobank  
Reliance Industries  
RNK Capital  
Robert Bosch GmbH  
Shell Solar  
Singapore Petroleum Co  
Societe Generale  
Standard Bank  
Suzlon Energy  
Tai Fung Trading Co.  
Thai Oleochemicals  
Thai Military Bank  
Triodos International Fund Management  
UBS Securities  
Vattenfall Power Consultant  
Vestas Asia Pacific  
West LB Capital Markets  
World Bank  
Yesbank

