

# Sustainable Energy Asia

## Congress & Exhibition

12-15 June 2007, Orchard Hotel, Singapore

### Renewable Energy Finance Asia

12-13 June 2007

### Biofuels Markets Asia

12-13 June 2007

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### Carbon Markets Asia

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### Biogas Markets Asia

14-15 June 2007



#### Special Address from

**Dr Amy Khor**, Senior Parliamentary Secretary & Chair, National Climate Change Committee  
Ministry of Environment and Water Resources

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

08.15 Registration & Refreshments

## Keynote Plenary Session: Major Trends in Sustainable Energy in Asia

This opening plenary session will be shared with the delegates of the co-located Renewable Energy Finance Asia conference

Session Co-hosted by



09.05 **Opening Remarks**

09.15 **SEAS Welcome Address**

**Edwin Khew**, Chief Executive Officer, **IUT Global Pte**, Chairman, **SEAS and SAFECO and SMA**

09.25 **Official Keynote Address by Guest of Honour**



**Dr Amy Khor**, Senior Parliamentary Secretary & Chair, National Climate Change Committee, **Ministry of the Environment and Water Resources**, Singapore

09.45 **The Asian Palm Oil Phenomenon - Is it Sustainable?**

**Zazili Jaafer**, General Manager, **Golden Hope**, Malaysia

10.20 Networking Refreshment Break & Exhibition Visit

11.15 Chairman's Opening

**Mike Cochran**, **APAC Biofuel Consultants**, Australia

14.45

**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
- Srinivas Prasad Moturi**, Chairman & Chief Executive Officer, **Cleancities Biodiesel**, India

15.10

**The CDM & Biofuels**

- Developing countries using GHG trading and the CDM to foster development
- Agus Sari**, Managing Director, **EcoSecurities**

15.35

**Interactive Discussion with Session Speakers**

15.40

Networking Refreshments and Exhibition Visit

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

11.30 **Balancing Biofuels with Feedstock Concerns in China**

- Introduction to the situation in China
- Ethanol - corn feedstock price concerns
- Encouraging farmers to grow non grain crops in areas that are unfit for grain
- Biodiesel case study

**William Tse Ming Kao**, Biodiesel Division Manager, **Cobra Biodiesel Division**, Xiamen, China & **Dr. Heinz-Peter Mang**, Bioenergy & Environmental Sanitation Advisor, **Chinese Academy of Agricultural Engineering**, China

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

- Creating competitive Biofuels markets
- New government policies and support
- Regulation and taxation - future strategies

**Dr. Magali Bonnier**, Head, Industry Manager for Chemicals, Environment & Energy, **Institute of Chemical and Engineering Sciences**, Singapore  
**Joseph Hui**, Director-General (Environmental Protection), **National Environment Agency**, Singapore  
**Cherie Tan**, Manager, SE Asia, Food & Agribusiness Research, **Rabobank**, Singapore  
**David Liang**, Director Advanced Clean Energy Centre, **Nanyang Technological University**, Singapore

12.45 **Factors for Economic Viability in Biodiesel Production and Use**

- Latest trends in biodiesel production technologies
- Solid catalysis, decades of experience in the mineral fuel industry
- Direct co-production of high quality glycerin
- Simplified and cleaner operation

**Michel Bloch**, Marketing Manager, Renewable Energies, **Axens**

13.00 **Interactive Discussion with Session Speakers**

13.05 Networking Lunch and Exhibition Visit

## Investing in Biofuels

14.20 **Price Risk Management on Crude Palm Oil as a Feedstock**  
**Kim Seng Chong**, Managing Director, **Joint Asian Derivatives Exchange**, Singapore

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
- Sarju Singh**, Managing Director, **D1 Oils**, India

16.40

**Executive Panel: Sustainable Biofuels in Asia**

*Each speaker will give a 5 minute case study, followed by an interactive discussion session*

- 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
- 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?

**Danilo Coronacion**, President & Chief Executive Officer, **CIIF Oil Mills Group**, Philippines

**Soedjai Kartasmita**, President Commissioner, **PT Bakrie Sumatera Plantations**, Indonesia

**Zazili Jaafer**, General Manager, **Golden Hope**, Malaysia

**Peter Cheng**, Chief Executive Officer, **Van Der Horst Biodiesel**

**Caroline van Tilborg**, Vice President, Carbon Markets, **Climate Change Capital**

17.30

Close of Day One & Networking Drinks

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

Day Two, 13th June 2007

08.30 Refreshments

08.50 Chair's Opening Remarks  
Chair: **Chris de Lavigne**, Vice President - Consulting Asia Pacific,  
**Frost & Sullivan**, Singapore

08.55 **Biodiesel & Biofuels Experiences**  
**K Amaranarayan**, Deputy Commissioner & District Magistrate,  
Chitradurga District, representing the **BioDiesel Society of India**

## 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  
- Both regular and winter grade Palm Biodiesel comply to EN 14241 & ASTM D 6751 specs  
**U.R. Unnithan**, Executive Director, **Carotino**, Malaysia
- 09.25 **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  
- Exporting vs. sale onshore - logistical considerations  
**John Hewson**, Chairman, **Natural Fuel**, Australia
- 09.45 **Introducing Biodiesel to India**  
- Integrated Biofuels plant  
- Feedstock's include oils derived from Palm, Soya & Jatropha  
- Domestic and imported  
- Envisaged capacity of 100,000 tonnes per year  
**Bhaskar Chalasani**, Managing Director & Chief Executive Officer, **Naturol Bioenergy**, India
- 10.05 **Biodiesel Production, Marketing & Trading**  
- Operations in Singapore & Malaysia  
- Biodiesel, an integral part of the alternative energy solution  
- Feedstocks  
**Tian Ching Long**, Director, **Vance Bioenergy**, Singapore
- 10.25 **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  
**David Finneren**, Director, **CMS Resources**, Singapore
- 10.45 **Interactive Discussion with Session Speakers**  
11.10 Networking Refreshments and Exhibition Visit

### Bioethanol

- 12.10 **Utilising a National Network for Ethanol**  
- An opportunity arising from sugar surplus  
- Expanding to ethanol production  
- Current status & future opportunities  
**Jose Maria T. Zabaleta**, Executive Director,  
**Philippine Sugar Millers Association**, Philippines
- 12.30 **Bioethanol Production in India**  
- Bioethanol from molasses at leading sugar producer  
- State of the art technology  
- Future plans  
**Rajesh Dhingra**, Business Head - Alcohol, **Mawana Sugars**, India

- 12.50 **Bioethanol Production in the USA**  
- Growth of the industry in the USA  
- Diversification in feedstocks  
- Case study - cellulosic ethanol biorefinery  
**Mike Roth**, Director of International Business Development,  
**POET**, USA
- 13.10 **Interactive Discussion with Session Speakers**
- 13.25 Networking Lunch and Exhibition Visit

## Biofuels Downstream Logistics

- 14.40 **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.  
**Andy Fischer**, Managing Director, **Australian Farmers Fuel (SAFF)**

## Impacts on Petroleum & Automotive Industries

- 15.05 **Adapting to Become a Prominent Alternative Fuel Producer**  
- Alternative Fuels Corporation subsidiary formed  
- Taking the lead in Biofuels development  
- Intends to establish a jatropha based Biofuel refinery with a capacity of 1m metric tonnes, a 700,000 hectare jatropha 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  
- Samsung as a possible strategic partner  
**Clovis T. Tupas**, Operations Manager, **Philippine National Oil Company Alternative Fuels Corporation**, Philippines
- 15.30 **Interactive Discussion with Session Speakers**  
15.40 Networking Refreshments and Exhibition Visit
- 16.10 **Diversification from Commercial Vehicles to Biofuels**  
- Opportunities envisaged in the biofuels sector  
- Developing a 250,000 tonnes per annum plant  
- Feedstocks  
- Product offtake  
**Ramesh Santhanam**, Vice President, **Ashok Leyland**, India

## Next Generation Biofuels

- 16.35 **Next Generation of Biofuels Production Processes**  
**Vijay Singh**, Assistant Professor, Department of Agriculture & Biological Engineering, **University of Illinois at Urbana-Champaign**, USA
- 17.00 **Interactive Discussion with Session Speakers**
- 17.10 Close of Conference

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**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.

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

08.55 Registration & Refreshments

## Keynote Plenary Session: Major Trends in Sustainable Energy in Asia

This opening plenary session will be shared with the delegates of the co-located Biofuels Markets Asia conference

Session Hosted by:

09.05 **Opening Remarks by Chairman:** Mike Allen, Financial Advisor, REEEP

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10.20 Networking Refreshment Break & Exhibition Visit

15.10 Networking Refreshments and Exhibition Visit

## 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

11.35 **Energy Revolution: A Sustainable World Energy Outlook**

- The scale of renewable energy investments globally, focusing on East Asia
- How to address climate change between now and 2050

**Jasper Inventor**, Southeast Asian Campaigner for Climate and Change, Greenpeace International

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?

**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  
**Carol Tan Swee Sien**, Head of Project Finance, Epuron Pte Ltd

12.55 Networking Lunch and Exhibition Visit

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

**Roberto C. Julian**, Finance Director, Preferred Energy, Inc.

## Mechanisms For Financing Renewable Energy In Asia

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

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

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, BayernLB, Hong Kong &  
**Stefan Gerig**, Chief Investment Officer, Nordkap Bank

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)

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

## 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

**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  
**Joseph Jacobelli**, Head of AsiaPac Utilities Research, Merrill Lynch  
*(awaiting final confirmation)*

Now in it's 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**  
**Ken Cheung**, Partner, **Watson, Farley & Williams LLP**  
**Jeff Layman**, Senior Associate, **Fulbright & Jaworski**

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

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

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  
- Overview of the target market, how it is segmented, market dynamics, future outlook  
- Experiences and case studies

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

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

**Christoph Loeslein**, CEO, **AsiaWind Group** and CEO E&E Division **London Asia**

*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**  
- Overview of the target market, how it is segmented, market dynamics  
- Experiences and case studies

**Financing a Solar Plant in Korea**

**Tom Burr**, Senior VP and Manager, Export Finance, **CNB (City National Bank Los Angeles)**

**Christophe Inglin**, Managing Director, **Phoenix Solar**

*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**  
**Christophe Inglin**, Managing Director, **Phoenix Solar**

12.30 Networking Lunch and Exhibition Visit

13.30 **Bio-Energy: Biofuels and Biomass Financing and Investment**  
- Overview of the target market, how it is segmented, market dynamics, future outlook  
- Experiences and case studies

**Graham Stowell**, Managing Director, **Bronzeoak**

**Dr Russell Teall**, President and Founder, **Biodiesel Industries**

**Nguyen Le Truong**, Energy Conservation Research & Development Center, Vietnam

*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**  
**Roberto C. Julian**, Finance Director, **Preferred Energy, Inc.**

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

**Renewable Energy Finance-Policy Project lead by Chatham House in collaboration with REEEP:**

**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?

or:

**Closing Networking Session**

A structured networking session will provide one last opportunity to do business with fellow delegates

17.30 Close of Conference

## Day One, Thursday 14 June

08.30 Registration and Refreshments

09.00 Chairman's Opening Remarks  
**Marc Stuart**, Founder, Director of New Business Development,  
**EcoSecurities**, USA

## 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**

10.15 **Carbon Markets and Opportunities in China**  
- Overview of Chinese CDM market  
- Analyzing the rapid market growth - lessons to be learned  
- Opportunities and pitfalls of current regulatory environment  
**Des Godson**, Investment Advisor, **Trading Emissions**, China

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

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

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

**Michael Loeffler**, General Manager Asia, **Cargill Emission Reduction Services**, Thailand

**Marie-Anne Birken**, Assistant General Counsel,  
**Asian Development Bank**

**Andrew Aldridge**, Vice President, Carbon Markets,  
**Climate Change Capital**

13.10 Networking Lunch and Exhibition Visit

*"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*

## 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**

**Gilles Corre**, Director European Environmental Markets,  
**Evolution Markets**

15.15 Networking Refreshment Break and Exhibition Visit

16.00 **Countering Concerns on Delivery of Credits: Experiences from a verifier's perspective**  
- Key elements of validation, verification & certification  
- Lessons learned from the verification of CDM projects  
- Differences between estimated and actual emissions reductions and how to minimize them  
- How to ensure that projects are implemented as planned  
- What risks may be expected during verification?  
**Ayse Frey**, Project Manager CDM/JI, **TÜV SÜD**, Germany

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

**Rae Kwon Chung**, Director, Environment and Sustainable Development, **UNESCAP**, Thailand

**Yuvaraj Dinesh Babu**, Director, Carbon Trading,  
**Asia Carbon International**, Singapore

**Chaitanya Kalia**, Associate Director, Risk and Business Solutions,  
**Ernst & Young**

**Ram Babu**, Managing Director, **Cantor CO2e**, India

17.00 Close of Day One & Networking Drinks

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

- 08.30 Refreshments
- 09.15 Chairman's Opening Remarks  
**Vernon Tan**, Director, **AES**, Singapore

## Project Host Session

- 09.20 **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
- Interjeet Singh**, Manager, **Senergy Global**, India
- 10.20 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 **CDM Projects in the Wind Energy Sector**  
**Pushkala Lakshmi Ratan**, Head of CDM, **Vestas Wind Systems**, India
- 14.20 **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
- 14.45 **Taishir Hydropower Project in Mongolia**
- Specific challenges in Hydropower projects
  - Overcoming costs and managing the project cycle
- Soon Chan Hong**, **Mitsubishi UFJ Securities**
- 15.00 **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**
- 15.15 Interactive Discussion with Session Speakers
- 15.30 Networking Refreshment Break & Exhibition Visit

## 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 **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 **Indocement Blended Cement Project**
- Practical examples of project success
  - Managing the project cycle
  - Sustainability and social issues
  - Unique experiences in developing CDM projects
- Ovind Hoidalén**, Executive Director, **PT Indocement Tunggal Prakarsa**, Indonesia
- 11.50 **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
- 12.10 Interactive Discussion with Session Speakers
- 12.30 Networking Lunch and Exhibition Visit

## Energy Efficiency & CDM

- 16.00
- What makes energy efficiency projects attractive to buyers?
  - Examining the role of carbon markets in supporting energy efficiency projects
  - Focus on well-established, low capital, high yield energy efficiency projects in India and China; what is key to their success?
  - Current status of projects and future development post 2012
- Bill Kentrup**, Origination Director, **Noble Carbon**, Hong Kong  
**Stewart Ballard**, Chief Commercial Consul, **U.S. Consulate General**, Hong Kong
- 17.00 Close of Conference

## Future Dates for Your Diary

### Carbon Markets USA

11-12 September 2007, San Francisco

### Carbon Markets India

25 & 26 September 2007, Mumbai

### Next Generation Biofuels Congress

4-5 October 2007, Amsterdam

### Biodiesel Congress

19-20 October 2007, Buenos Aires

### Biofuels Markets Africa

5-6 November 2007, Cape Town

### Carbon Markets Africa

14-15 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)**, China

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, **Nanyang Technical University, NGU**, Singapore

10.20 **Case Study: Biogas Recovery and Utilisation in Asia**  
**Stephen Etheridge**, Chief Technology Officer, **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 Extension in Developing Countries**  
- Biogas in Asia and Africa, the differences  
- Success and failure stories in both continents  
- Technical aspects of dissemination  
- Factors for sustainability  
**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)**, China  
**Dr Stephen P Etheridge**, CTO, **Asia BioGas**, Thailand  
**Sunil Dhingra**, Fellow, Biomass Energy Technology Applications, **TERI - The Energy and Resources Institute**, India  
**Justin Guest**, CDM Investment Advisor, **EEA**, UK  
**Dr Robin Eden**, CEO, **Organics**, UK

### Investment & Financing Of Biogas

14.00 **Case Study: Successful Financing Strategies and Investment Trends in Biogas in Asia**  
**Mark Leslie**, VP Southeast and East Asia, **AES AgriVerde**

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)**, China

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**, UK

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, **EcoSecurities**, Indonesia

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**

10.00 **Case Study**  
**Peter Unden, Marketing Director, Svensk Biogas, Sweden**

10.30 Networking Refreshment Break & Exhibition Visit

11.00 **Experience with Biogas Engines for Combined Heat and Power Generation**  
**Uwe Schmidt, MAN** (awaiting final confirmation)

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

11.25 **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

11.50 **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  
**Jurgen Thiele, Environmental Biotechnologist, Waste Solutions Ltd New Zealand & Jeffery Dickinson, Asia Regional Manager, E&Co Asia**

12.15 Interactive Discussion Session

12.20 Networking Lunch Break & Exhibition Visit

## Biogas Developments - Looking To The Future

13.30 **Optimisation of Anaerobic Digestion for Maximising and Safeguarding Biogas Production**  
- Technical barriers of conventional biogas production in full scale  
- Strategies for optimizing biogas production process  
- Future potential  
**Dr Jing Liu, Director of R&D, BioProcess Control Sweden AB, Sweden**

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 **Biomass Gasification - Technology and Markets**  
- Successful case studies across Asia  
**Sunil Dhingra, Fellow, Biomass Energy Technology Applications, TERI, India**

15.10 **2<sup>nd</sup> Generation Biogas - Thermal Gasification of Biomass**  
- Proven technology concepts  
- Recent technology developments  
- The future potential  
**Robert Eden, Chief Executive Officer, Organics, UK**

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

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- ▶ The combined 2006 events had over **450 senior executives** and international media in attendance
- ▶ Sponsor the 2007 event now and take advantage of our extensive pre-event promotional campaign,
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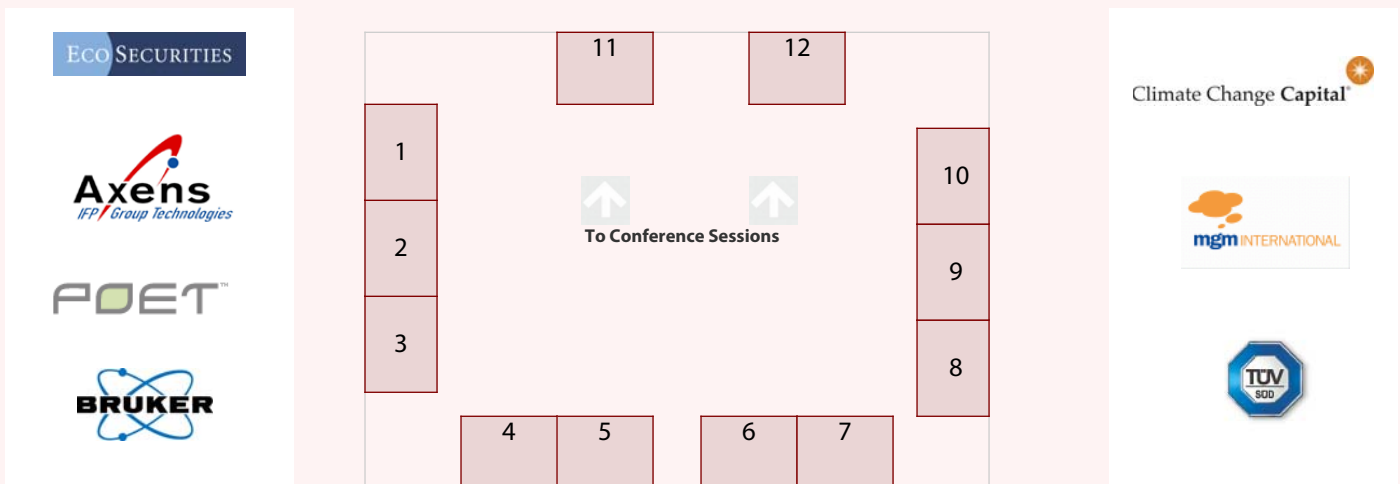
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### Exhibition Floorplan

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

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



"a lot of interesting & high level contacts" Desmet Ballestra

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

### Media Partners



### 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)

## Why You Need to Attend?

- >>> **Sustainable Energy Asia** combines 4 leading regional events, offering unparalleled networking opportunities, **450** executives attended in 2006
- >>> **Meet the Decision Makers:** 45 CEO's & Board Level Speakers
- >>> **Unrivalled Content:** Learn from 100+ Expert Speakers from 24 Countries
- >>> **Your Questions Answered** during 8 hours of interactive panels & Q&A sessions
- >>> **Unbeatable Value for Money:** 2 day passes from US\$ 800\*  
*(\* for groups of 3 participants attending from the same company)*

## Asia's Leading Sustainable Energy Event

"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 Renewables 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

## Network with a Global Audience, 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

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AES  
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Asia Carbon  
Asian Development Bank  
Azure International  
Baker & McKenzie  
Baring Private Equity  
BP  
BNP Paribas  
Boeing  
Bronzeoak  
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Triodos International Fund Management  
UBS Securities  
Vattenfall Power Consultant  
Vestas Asia Pacific  
West LB Capital Markets  
World Bank  
Yesbank

