

24-25 March 2010
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Capitalizing on Opportunities in the Thai Alternative Energy Market & the Region...

ALTERNATIVE ENERGY THAILAND FORUM 2010

CONFERENCE HIGHLIGHTS:

- ✓ **Keynote & Special Addresses:** Updates on National Energy Policy, REDP & BOI promotions in Thailand
- ✓ **12 Main Plenary Sessions:** The latest trends & issues in the global and Asia alternative energy arena, International policy updates, Climate change & CDM projects

- ✓ **4 Focused Sessions** Discussing trends and opportunities in the alternative energy sector in Nuclear power plants, Phuket WTE project, Australia's Black coal industry, & SPP for RE

- ✓ **2 Parallel Sessions** packed with comprehensive sessions driving the RE sector

- Parallel Sessions I:**
- ✓ **Stream A:** RE in Power Generation (Wind & Solar)
 - ✓ **Stream B:** Bioenergy (Biomass & Waste to Energy)

- Parallel Sessions II:**
- ✓ **Stream C:** Bio-fuels on project development, international trade and 2nd generation technology
 - ✓ **Stream D:** Alternative Energy Project Development in S/E Asia & Mekong Region

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HEAR FROM OUR DISTINGUISHED SPEAKERS:

GOVERNMENT VIEWPOINTS FROM:

Dr Twarath Sutabutr

Deputy Director General
Department of Alternative Energy
Development and Efficiency
Ministry of Energy

Dr Sarawat Kaewtathip

Senior Plan & Policy Analyst
Policy & Strategy Coordination Office
Ministry of Energy

Dr Samai Jai-In

Energy Standing Committee
House of Representatives of Thailand

Dr Kamol Takabut, Assistant Governor
- Power Plant Engineering
Electricity Generating Authority
of Thailand (EGAT)

Dr Chaiwat Muncharoen

Deputy Executive Director
Thailand Greenhouse Gas
Management Organization (TGO)

Dr Rosarin Smitabhindu, Senior Advisor
(Specialist in Policy and Planning)
Royal Chitralada Projects, Bureau
of the Royal Household

Mr Chira Achayuthakan, Engineer -
Power Purchase Agreement Division
Electricity Generating Authority
of Thailand (EGAT)

Ms Peesamai Jenvanitpanjakul
Senior Energy Expert
National Science and Technology
Development Agency (NSTDA)

Senior Representative
Thailand Board of Investment (BOI)

EXPERT VIEWPOINTS FROM:

ML Chanaphon Kridakorn
Chairman of Board of Directors
AT Biopower Co Ltd

Dr Stephen Etheridge
Independent Consultant

Ms Sopida Luveeraphan

First Executive Vice President
& Fund Manager
MFC Asset Management Public Co Ltd

Mr Wannawut Apinanratanakul

Senior Vice President, Investment
Banking
Tisco Securities Co Ltd

Mr Joseph Tisuthiwongse, Consultant
Clifford Chance (Thailand) Ltd

Mr Philip Napier-Moore

Lead Energy Advisor
Mott MacDonald Ltd

Assoc Prof Dr Somrat Kerdsuwan

Director of the Waste Incineration
Research Center, Department of
Mechanical Engineering
King Mongkut's University of
Technology North Bangkok

**Assoc Prof Dr Wattanapong
Rakwichian**

Director, Asian Development Institute
for Community Economy & Technology
Chiang Mai Rajabhat University

Dr Wirachai Roynarin, Director,
Wind Water & Solar Research Center
Rajamangala University of
Technology Thanyaburi (RMUTT)

Dr Mirko Barz

Advisor for Renewable Energies
Joint Graduate School of Energy
and Environment (JGSEE)
King Mongkut's University of
Technology Thonburi (KMUTT)

Mr Anthony "Tony" Segadelli

Managing Director
Owl Energy Ltd

Mr Magnus A Staudte

Managing Director
Envima (Thailand) Co Ltd

Mr Torsten Fritsche, Director

Resource-Efficiency & Energy
German Technical Cooperation (GTZ)

INTERNATIONAL VIEWPOINTS FROM:

Dr Peter du Pont, Chief of Party,
ECO-Asia Clean Development and
Climate Program
USAID Contractor, International
Resources Group (IRG)

Mr Suneel Parasnis, Asia Coordinator for
the Private Financing Advisory Network
USAID Contractor, International
Resources Group (IRG)

Dr Stefanos Fotiou
Regional Coordinator: Resource Efficiency
United Nations Environment
Programme (UNEP)
Regional Office for Asia and the Pacific

Mr Jie Tang, Senior Energy Specialist
World Bank

Dr Bart Lucarelli, President
LP Power Consultants Ltd

Mr Ingo Puhl, Chief Growth Officer and
Managing Partner
South Pole Carbon Asset
Management Ltd, Switzerland &
Managing Director, South Pole Carbon
(Thailand)

Mr Werner Kossmann, Managing Director
Pure Natural Power Co Ltd

Mr Daniel Rosa, Head of Sales,
South East Asia and Middle East
Conergy Renewable Energy Singapore
Pte Ltd

Mr Ray Hogger, Director - Technical and
Commercial
Vertical Asia Pte Ltd, Singapore

Mr Daniel Gaefke, Director
Annex Power Ltd

Mr Austin Arensberg
Business Development Manager
Prime Energy Investments Ltd

Mr Duncan Ritchie, CEO
Aequero

Optional Day 3 An Executive Conference! Don't miss a value-added one day conference on...
"Renewable Project Finance" - Friday, 26 March 2010

to address private sector financing, infrastructure and RE funds, lessons learned on biogas project financing, energy efficiency in Asia, the benefits of carbon credit sales in solar farms, as well as technical & legal considerations for project financing, as related to alternative energy sources, will be discussed.

All presentations will be in English.

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ALTERNATIVE ENERGY THAILAND FORUM 2010

Day One: WEDNESDAY, 24 MARCH 2010

MAIN PLENARY SESSIONS

8:00 Registration & Morning Coffee

9:00 Chairperson's Opening Address
Mr Duncan Ritchie, CEO, Aequero

9:15 **SPECIAL ADDRESS: Thailand National Energy Policy and Strategies**

- Policy outlook and development plan on national energy
- Update on new national power development plan (PDP)
- Government policy for diversification
- Long-term strategies and measures for supporting alternative energy development and deployment (Nuclear, wind, solar, biomass, biogas, Waste to Energy, etc)
- Sustainability in energy development in Thailand

Dr Sarawut Kaewtathip
Senior Plan & Policy Analyst
Policy & Strategy Coordination Office
Ministry of Energy

Dr Sarawut Kaewtathip worked at Unisafe as a consultant to Texaco, responsible for risk management planning and HAZOP study. He joined the "International Program for Development Evaluation Training" organized by the World Bank and Carleton University in Ottawa, Canada and "Utilities Regulations and Strategies" organized by the World Bank and Public Utility Research Center in Florida, USA.

10:00 Morning Refreshments & Networking

10:30 **BOI Policy & Investment Incentives for Enhancing Alternative Energy Investment in Thailand**

- Government policy & supporting roles in promoting local and foreign investment in bio-energy
- Investment promotion policy on bio-energy
- Incentives for efficiency improvement
- Recent new projects development and prospects

Senior Representative
Thailand Board of Investment (BOI)

11:00 **Direction of Nuclear Power Plants in Thailand: Prospects, Development & Implications**

- Updates on policies & plans for promoting nuclear power in Thailand
- The opportunity of nuclear power plant areas
- Challenges and opportunities of nuclear power in Thailand
- Critical concerns on operating nuclear power plants

Dr Kamol Takabut, Assistant Governor - Power Plant Engineering
Electricity Generating Authority of Thailand (EGAT)

Dr Kamol Takabut has been working at EGAT more than 30 years in several positions such as Project Manager of Fang Geothermal Power Plant the 1st Binary Cycle Plant in SE Asia, Engineering Project Manager of Ratchaburi Thermal Power Plant the 1st Super-Critical Boiler in Thailand, and General Manager of Suvarnabhumi District Cooling System & Power Plant (DCAP).

11:30 **International Policy Update: Impact of the Copenhagen Negotiations on International Carbon Markets & Renewable Energy Investments in Thailand**

Mr Ingo Puhl, Chief Growth Officer and Managing Partner, South Pole Carbon Asset Management Ltd, Switzerland & Managing Director, South Pole Carbon (Thailand)

Ingo Puhl is a Senior Expert for CDM and emissions trading with a 10 year track record and staff/consulting positions for key players in the carbon market including the World Bank, OECD/IEA, UNIDO, GTZ and numerous private sector client engagements. His experience includes financial due diligence and quality management on CDM deals for carbon buyers and sellers (renewable energy).

12:15 Lunch

1:45 **Global & Regional Challenges Facing the Alternative Energy Sector & Key Considerations for Market Players**

- Market drivers and challenges
 - Long-term predictions for the industry & regional trends
 - Global outlook on alternative energy potential
 - Future directions and developments
- Mr Duncan Ritchie, CEO, Aequero**

Duncan Ritchie has 20 years' experience in investment banking, finance and project development. He has led many financial advisory engagements in the energy and infrastructure sector. He has also advised government & multilateral development agencies on issues relating to renewable energy, low carbon technology deployment and public-private partnerships in the development of infrastructure.

BREAKOUT ROOM

PARALLEL SESSIONS I: Stream A & B

STREAM A: RE IN POWER GENERATION (WIND & SOLAR)

Sessions Moderator:

Mr Duncan Ritchie, CEO, Aequero

2:30 **Accelerating New Business in Wind Power in Thailand**

- Updates on wind power plants – trends & opportunities
- Updates on resources and technology assessment
- Future growth & investment opportunities
- Challenges & opportunities in new project developments in wind energy

Dr Wirachai Roynarin, Director, Wind Water & Solar Research Center
Rajamangala University of Technology Thanyaburi (RMUTT)

Dr Wirachai Roynarin has done much research/ work experience in RE such as 200 kw, The First Mini Wind Farm in Thailand, Pattaya City Council, Installed at Koh Lan, Chonburi; 3 Units of the 5 kw Low Wind Speed Design, DEDE, Ministry of Energy, Installed at Klong 5 Phatumthani; and 50 kw Low speed Wind Turbine Prototype, EGAT, Proposed to Install at Lamtakong Dam, Nakorn-Rachasima.

3:15 **Significance of Wind & Site Studies & Technology Developments in Wind Energy Utilization**

- Introduction to wind power technology before looking at the specifics of site selection, wind farm management and key markets
- The importance of quality wind data (CFD)
- Wind farm management: Maximizing fleet performance and utility integration

Mr Philip Napier-Moore, Lead Energy Advisor
Mott MacDonald Limited

Phil Napier-Moore is Mott MacDonald's lead low-carbon power generation advisor for South-East Asia, managing technical advisory studies from Bangkok. He has led projects for several UN agencies, national governments and a large number of private companies, working internationally on low-carbon power projects in 20 countries around the world, in particular within Asia and Europe.

4:00 Networking Coffee Break & Networking

4:15 **Next Generation Solar Updates: Future Direction**

- Global trends on electricity generation from solar source
- Commercial viability for power plants
- How solar transactions are structured
- Developmental issues and challenges
- Future directions & challenges

Mr Daniel Rosa, Head of Sales, South East Asia and Middle East
Conergy Renewable Energy Singapore Pte Limited

Daniel Rosa is responsible for managing the intersection of market and client development, focusing on the integration of energy systems in off-grid environments. With a background in sustainable solutions, Daniel is an Ecopreneur and Architectural Technologist with more than 10 years product development and project consulting experience in Europe and the South Pacific.

5:00 **Technology Developments in Solar Energy Utilization**

- Climate requirements/suitability – finding a specific technology that is best for certain needs
- Next generation technology developments for solar energy utilization & solar applications
- Challenging issues & future implications

Assoc Prof Dr Wattanapong Rakwichian
Director, Asian Development Institute for Community Economy & Technology, Chiang Mai Rajabhat University

Dr Wattanapong Rakwichian participated in Renewable Energy of country, region and international level which have cooperated more than 50 countries more than 30 years. He is also the leadership of the Solar Energy in Thailand and establishes Solar Energy Park which is the biggest one of Asia so he's honorable to be the advisor of government, institute agency and private sector.

5:30 End of Day One

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Sessions Moderator:

Dr Stephen Etheridge, Independent Consultant

2:30 Practical Experience on Renewable Energy Biomass Power Plant (Rice Husk)

*ML Chanaphun Kridakorn, Chairman of Board of Directors
AT Biopower Company Limited*

ML Chanaphun Kridakorn is also a Senior Advisor at Chubu Electric Power Co Ltd. Prior to that, he was a Deputy Governor – Policy and Planning. He was Director at EGCO in 2001-2003, Advisor at Nam Than I Hydro Power Project – Lao PDR, Gamuda Berhad, Malaysia in 2005-2006, Advisor at Banpu Power in 2004-2008 and Member of Board of Director at Ratchaburi Power Co Ltd in 2003-2006.

3:15 Biomass Potentials & Conversion Technologies for Electricity Generation

- Biomass - the most important RE source unused today
 - Potentials
 - Share within the energy mix (global, EU, Germany, Thailand)
- Overview - Biomass power sector in Germany
 - German RE policy
 - Development in the biomass power sector
- Biomass to Energy - conversion routes
- Technologies to produce electricity from Biomass
- Examples/Applications in Europe

Dr Mirko Barz, Advisor for Renewable Energies

*Joint Graduate School of Energy and Environment (JGSEE)
King Mongkut's University of Technology Thonburi (KMUTT)*

Dr Mirko Barz is responsible to strengthen JGSEE's capacity in the provision of education and training, R&D and technical services, particularly through linkages with German and/or international institutions; develop and participate in local and international applied research and technical services projects; enhance JGSEE's capacity in policy research and initiate policy dialogues with stakeholders; and assist in teaching, research and supervision of graduate thesis.

4:00 Networking Coffee Break & Networking

4:15 Renewables Business & Optimizing Its Strategies

- Overview of Renewable Energy development in Thailand
- Current state and future trends of Renewable Energy development and investment
- Review technologies for waste to energy, feed stock, biogas, biomass, and MSW

*Mr Anthony "Tony" Segadelli, Managing Director
Owl Energy Limited*

Anthony Segadelli is highly experienced in Renewable Energy having been both a developer and consultant on a range of fuels including MSW, palm leaf, EFB, POME, wood chip, corn cob, rice husk and bagasse. His experience includes both development and EPCM phases of biomass projects. He is Managing Director for OWL Energy Ltd, which is a boutique engineering consulting company that also takes equity positions in Renewable projects.

5:00 Technology Developments in Waste-To-Energy Options

- Climate requirements/suitability – finding the specific technology that is best for waste to energy projects
- Updates on technology developments for waste to energy utilization
- Applicable technologies for waste to energy projects
- Challenging issues & future implications

*Mr Torsten Fritsche, Director, Resource-Efficiency & Energy
German Technical Cooperation (GTZ)*

Torsten Fritsche has researched at AIT on waste management and biogas utilization at Thai schools. He has worked in various countries on implementation and optimization of integrated waste management. GTZ activities in Thailand on waste management such as support on the waste master law, applied and available waste technologies, follow-up of successful waste management systems, waste-to-energy and biogas are under his responsibility.

5:30 End of Day One

Day Two: THURSDAY, 25 MARCH 2010

MAIN PLENARY SESSIONS

8:30 Morning Coffee

8:50 Chairperson's Opening Address

*Dr Samai Jai-In
Energy Standing Committee
House of Representatives of Thailand*

9:00 KEYNOTE ADDRESS: Update & Progress on Thailand 15 Years Renewable Energy Development Plan (REDP)

- Current update on 15 years REDP in Thailand
- Challenges and opportunities for investors
- Future direction and plans

*Dr Twarath Sutabutr
Deputy Director General
Department of Alternative Energy
Development and Efficiency (DEDE)
Ministry of Energy*

Dr Twarath Sutabutr has been Director of Policy & Strategy Coordination Office, Ministry of Energy; Ministry of Energy Spokesperson; Director of Public Communication Division, Nuclear Power Program Development Office (NPPDO); Board of Directors, Bangkok Petroleum Plc, etc. He received an Outstanding Civil Service Award, the 1st officer to receive such an honor from the Ministry of Energy.

9:30 Climate Change and Mitigation Options through Alternative Energy Technologies

- Implementing international environment law for climate change & its impact
- Examining growth prospects for alternative energy and efficiency investment in Thailand
- Critical issues on climate change which we should be aware of

*Dr Chaiwat Muncharoen
Deputy Executive Director
Thailand Greenhouse Gas Management
Organization (TGO)*

Dr Chaiwat Muncharoen is responsible for day-to-day management of TGO especially for CDM projects approval and Thailand GHG database development. He has extensive experiences in development of CDM project, renewable energy project and energy efficiency project together with energy policy formulation & capacity building development.

10:15 Morning Refreshments & Networking

10:30 Municipal Solid Waste to Electricity Update: Case Study of Phuket Waste-To-Energy Project

- Overview of Phuket Waste-to-Energy project development
- Waste generation and prediction in Phuket island
- Master plan of sustainable waste management for Phuket
- Development of WTE project: Technology and Economic Aspects
- Obstacle and how to overcome the barriers
- Future directions and key implications for investors

*Assoc Prof Dr Somrat Kerdsuwan,
Director of the Waste Incineration
Research Center, Department of
Mechanical Engineering, King Mongkut's
University of Technology North Bangkok*

Dr Somrat Kerdsuwan has a very strong background concerning Waste Thermal Treatment Technology, Waste Management and Air Pollution Control. Currently, he is a director of the Waste Incineration Research Center, Department of Mechanical Engineering, King Mongkut's University of Technology North Bangkok.

11:15 Impact of Climate Change Policies & Alternative Technologies on Australia's Black Coal Industry

- Status of Australia's Climate Change and Renewable Energy Policies
- Potential impacts on domestic & export markets for Australia's black coal
- New technologies and directions
 - Carbon Capture and Sequestration - State of the Technology
 - Development of the Coal Seam Gas Industry in Queensland and NSW
 - Potential for Underground Coal Gasification as a new coal extraction industry in Australia
- Summary and conclusions

PANEL DISCUSSION

*Dr Bart Lucarelli, President
LP Power Consultants Limited*

Dr Bart Lucarelli has over 26 years experience as a developer of power and fuel projects. Over the past 3 years, he has focused his work on coal acting as a fuel advisor to companies developing coal-fired power projects in the region and completing research studies into future of the coal industries of Australia and Indonesia.

12:00 The Impacts of Alternative Fuel Developments: Trends & Future Directions in Thailand

- Global demand/production outlook on alternative fuels
- The position of alternative energy in energy demand & production – Is there a shift to alternative fuels in the long run?
- Promoting regional cooperation in boosting the production and use of alternative fuels
- Future outlook and developments

Moderator:

*Dr Samai Jai-In
Energy Standing Committee
House of Representatives of Thailand*

Dr Samai Jai-In has been conducting Research and Development programs for the Royal Thai Navy for the past 20 years in several technological-based areas as well as alternative energy. He has been actively involved with the development of Bio-fuel programs for Thailand and Asian region with special focus on community-based programs such as the bio-diesel pilot project in Chiang Mai (with DEDE, Ministry of Energy), bio-diesel pilot project in Samui Island (with Rajabio-diesel and Renewable Energy Inst. Foundation) and bio-fuel community development project in Saraburi (with NSTDA, Ministry of Science and Technology).

Panelists:

*Dr Bart Lucarelli, President
LP Power Consultants Limited*

*Mr Ray Hogger
Director – Technical and Commercial
Vertical Asia Pte Limited, Singapore*

*Dr Stephen Etheridge
Independent Consultant*

Dr Stephen Etheridge installs and operates some of the largest anaerobic digestion plants in SE Asia. He is responsible for process design, development and implementation, plant commissioning and monitoring operations including CDM aspects.

12:45 Lunch

Stream C: Bio-fuels

Sessions Moderator:

Dr Samai Jai-In, *Energy Standing Committee House of Representatives of Thailand*

1:45 Role of Royal Chitralada Projects in Alternative Energy: Bio-Fuels

- History of bio-fuels in Thailand
- Raw materials & technology for bio-fuels production
- Promotion of production & utilization of bio-fuels in Thailand
- Biodiesel production and application
- Key success factors on bio-fuels in Royal Chitralada projects

Dr Rosarin Smitabhindu, *Senior Advisor (Specialist in Policy and Planning), Royal Chitralada Projects, Bureau of the Royal Household*

Dr Rosarin Smitabhindu works in the Royal Chitralada Projects for 33 years. Before this position, she was the Deputy Director of the Royal Chitralada Projects. Alternative Energy is one of the fields in the agriculture projects in Chitralada Villa, Dusit Palace in Bangkok for more than 20 years.

2:30 International Trade, Market Integration & Pricing of Biofuels and Ethanol in Asia & Thailand

- Current status of the market & solutions for future industry
- Opportunities and challenges of the biofuels market in Thailand – ethanol & bio-diesel & entering 2G biofuels in the market
- Consumption needs, demand and supply prospects
- Consideration of market development & price structure
- Market opportunities to export ethanol worldwide
- How the international trading market may provide an opportunity for Thailand to participate

Mr Ray Hogger, *Director – Technical and Commercial Vertical Asia Pte Limited, Singapore*

Ray Hogger has extensive experience in commercial, quality and technical areas across the chemical sector including oil, gas, chemicals, chemical specialties and pharmaceuticals as well as fuel quality, additives and biofuels.

3:00 2nd Generation Technology Developments for Biofuels & Opportunity for New Feedstocks

- Transitions to new sustainable biofuels
- Global developments of next generation biofuels utilizing alternative non food crops
- Opportunities for next generation of biofuels in the existing oil industry infrastructure
- Forming a successful and sustainable biofuels industry

Ms Peesamai Jenvanitpanjakul, *Senior Energy Expert*

National Science and Technology Development Agency (NSTDA)

Stream D: Alternative Energy Project Development in S/E Asia & Mekong Region

Sessions Moderator:

Dr Stephen Etheridge, *Independent Consultant*

1:45 Overview of Alternative Energy in SE Asia and the Broader Asia Region

- Review latest developments and growth of alternative energy in Asia
- Review of government policies and targets with respect to renewable energy and energy efficiency
- Initiatives to address policy and regulatory barriers to the scale-up of investment in alternative energy

Dr Peter du Pont, *Chief of Party, ECO-Asia Clean Development and Climate Program*

USAID Contractor, International Resources Group (IRG)

Dr Peter du Pont has more than 25 years experience developing sustainable energy and efficiency programs in the U.S. and Asia. He has developed national energy-saving plans for Thailand and Vietnam; has directed an international non-profit organization working on energy efficiency issues; and has served as Secretariat to APEC's Expert Group on Energy Efficiency and Conservation.

2:30 PV Project Development and Investments in the Mekong/SE Asia Region

- Current status on PV projects development in the Mekong/SE Asia region
- Review of future growth & investment opportunities
- Challenges & opportunities in new project developments in SEA
- Selected case studies

Mr Daniel Gaefke, *Director, Annex Power Limited*

With more than 8 years' professional experience in the environmental and renewable energy business in European and Asian countries **Mr Gaefke** now focuses on the expansion of Annex Power. As Director, he is now responsible for the business operations as a turnkey contractor and consultant for RE solutions in South East Asia.

3:00 Regional Biogas Prospects and CDM Opportunities

- Biogas development & resource availability in Asia & its future
- Biogas – a sustainable contribution to energy supply
- Optimization of biogas production from renewable materials
- Plant optimization and monitoring biogas plants
- CDM project development and lessons learned

Mr Werner Kossmann, *Managing Director*

Pure Natural Power Company Limited

Werner Kossmann has been working for the GTZ as Advisor & Senior Project Manager in the field of environmental management and renewable energy for 22 years. Among several project assignments in the field of biogas development, from 1988 – 1994 he was Advisor to the Thai-German Cooperation Program.

MAIN PLENARY SESSIONS

3:45 Networking Coffee Break & Networking

4:00 EGAT: Thailand Small Power Producer (SPP) for Renewable Energy

- Thailand Electric Supply Industry Overview
- SPP Regulations
- Present Situations of Thailand SPP

Mr Chira Achayuthakan

Engineer, Power Purchase Agreement Division Electricity Generating Authority of Thailand

Chira Achayuthakan has experienced in power purchase between private power producers (i.e IPP and SPP) and EGAT for 10 years. He was with shift operation work in one of the pioneer IPPs. Most of his present tasks are with SPP covering both cogeneration process and renewable energy power plants.

4:30 Optimizing CDM Project as New Profitable Business: Policy & Opportunities in Global Markets & Its Implications in Thailand

- Understanding the key challenges in developing successful carbon projects in Thailand
- Are carbon credits a viable option for alternative energy finance?
- Challenges in the CDM approval process – baseline methodologies, validation and registration
- Effectively developing strategies for CDM project

Mr Magnus A Staudte, *Managing Director*

Envima (Thailand) Company Limited

Magnus A Staudte is working in Thailand in the fields of Air Pollution Management, Renewable Energy and CDM. He has a strong background in Regional and Industrial Environmental Management, Eco-Efficiency in Industries and Renewable Energy Technology in combination with huge expertise in the Clean Development Mechanism.

5:15 Close of Conference

Followed by an optional one-day conference on "Renewable Project Finance" on Friday 26 March 2010.

KEY BENEFITS OF ATTENDING:

- ✓ **Hear first-hand information** on government policy, new directives and incentives on alternative energy in Thailand
- ✓ **Real-life case studies!** Learn from practitioners' success stories about their project developments on AE sources
- ✓ **International Viewpoints!** Benefit from vital regional issues and lessons learned from alternative energy trends & developments
- ✓ **Benefit from critical information sharing** over 30+ presentations on a single meeting platform and grasp all aspects needed for your profitable decision-makings
- ✓ **Unparalleled executive-level networking opportunities!** Meet with authorities, industry experts & your peers both in Thailand and abroad for new business development opportunities

WHO SHOULD ATTEND:

Presidents/ CEOs * MDs * GMs * Project Directors/Managers
*** Strategic Planning Directors/Managers * Business Development Directors * Project Financiers * Power Energy Analysts * Project Investors * Technical Directors/Advisors**
*** Corporate Legal Advisors, & Contract Negotiators of:**
 Power Project Developers & Construction * Power/Energy Finance * Power System Planning * Power Equipment & Technology * Fuel Supply * Power Distribution/Transmission
 * IPPs/SPPs * Engineering Consultants/Contractors
 * Cogeneration Electricity Utilities/Industrial Facilities
 * Control Systems Suppliers * Energy Specialists, Consultants, Legal Advisors, Investment Bankers & Senior Executives involved in the Alternative Energy & RE industry.

- 8:00** Registration & Morning Coffee
- 8:50** Chairperson's Opening Address
Dr Stephen Etheridge, Independent Consultant
- 9:00** **Project Financing of Asia's Alternative Energy**
- ◆ Why are we eager to support alternative energy projects? Role of RE as a mitigation for Energy and Environment Constraint
 - ◆ Varieties of financing for alternative energy projects and role of carbon financing
 - ◆ Structuring financing of alternative energy projects in Asia
 - ◆ Barriers for financing
- Mr Jie Tang, Senior Energy Specialist, World Bank*
- 9:45** **Private Financing Advisory Network for Clean Energy**
- ◆ Why is there a missing middle between the clean energy businesses and financing?
 - ◆ What is Private Financing Advisory Network and its services?
 - ◆ How a PFAN eco-system is developed to achieve technology transfer and financial closures for clean energy businesses
- Mr Suneel Parasnis, Asia Coordinator for the Private Financing Advisory Network, USAID Contractor, International Resources Group (IRG)*
- 10:30** Morning Refreshments
- 10:45** **Infrastructure & RE Funds Structuring & Terms - Equity Financing**
- ◆ Challenges for today's RE project financing
 - ◆ Investment in infrastructure in RE projects & how to issue funds
 - ◆ Risk evaluation key to identify RE funds
 - ◆ Key considerations on RE funds structuring & terms
- Ms Sopida Luveeraphan, First Executive Vice President & Fund Manager MFC Asset Management Public Company Limited*
- 11:30** **Technical Considerations for Project Financing in Alternative Energy**
- ◆ Security of Supply - common key principles for demonstrating your project's 'fuel' resources, from biomass feedstocks to wind and solar energy yield
 - ◆ Technical guarantees from the equipment suppliers - what should the Lender expect?
 - ◆ A hierarchy of solutions to technology risk mitigation
 - ◆ Scale-up in RE financing - looking forward
- Mr Philip Napier-Moore, Lead Energy Advisor, Mott MacDonald Limited*
- 12:15** Lunch
- 1:30** **Lessons Learned: Biogas Project Financing in SE Asia**
- Mr Austin Arensberg, Business Development Manager Prime Energy Investments Limited*
- 2:15** **Energy Efficiency in Industry in Asia**
- ◆ A guide for energy efficiency in industry for Asian countries
 - ◆ Improve energy efficiency through Cleaner Production and for stakeholders who want help
 - ◆ Review of available financial mechanisms for energy efficiency in Asian industry
 - ◆ Case studies for more than 40 Asian companies in 5 industry sectors, technical information for 25 energy equipment, training materials, a contact and information database, and much more
 - ◆ A comprehensive roadmap guiding companies to improve their energy efficiency through a 6-step cleaner production approach
- Dr Stefanos Fotiou, Regional Coordinator: Resource Efficiency United Nations Environment Programme (UNEP) Regional Office for Asia and the Pacific*
- 3:00** Networking Coffee Break
- 3:15** **Benefits of Carbon Credit Sales for Renewable Project (Solar Farm)**
- ◆ How to make RE projects for carbon credit sales
 - ◆ Evaluation framework for financing CDM projects
 - ◆ Risk and mitigations involved in CDM process
 - ◆ Key considerations in making RE projects for carbon trading & project cases
- Mr Wannawut Apinanratanakul, Senior Vice President, Investment Banking Tisco Securities Company Limited*
- 4:15** **Legal Considerations on Project Financing in Alternative Energy**
- ◆ Identifying the various forms of financing available for alternative energy projects
 - ◆ Risk evaluation, management and key considerations in seeking finance to support your projects
 - ◆ Practical legal considerations in IPP project financing
- Mr Joseph Tisuthiwongse, Consultant, Clifford Chance (Thailand) Limited*
- 5:00** End of Conference

Dear Executive,

Thailand faces serious energy security issues in the wake of volatile oil prices and the limit to the traditional sources of energy such as oil, gas, coal, etc. Placing importance on this energy policy, Prime Minister Abhisit Vejjajiva said that the Government would provide support for the promotion of alternative energy sources. ***The Government has placed the use of alternative energy in the national agenda. In response to this aim, it will encourage the production and use of alternative energy such as biomass, biogas, ethanol-based oil, biodiesel, natural gas for vehicles, wind, solar and waste energy to enhance energy security.***

In response to the nation's energy security challenges, this first-time **Alternative Energy Thailand Forum 2010** aims to provide participants with a platform to keep abreast with government policies & regulatory updates, latest market developments, practical insights, and regional/international trends and perspectives on alternative energy development. Crucially, alternative energy policies and project investment as related to alternative energy sources, i.e. Coal, Renewable Energy, Nuclear, and Energy Efficiency are to be highlighted.

HIGHLIGHTS OF ALTERNATIVE ENERGY THAILAND FORUM 2010:

- ✓ **Plenary Keynote & Special Presentations:** Updates on National energy policy and strategies, REDP and BOI promotions in Thailand
- ✓ **12 Main Plenary Sessions:** The latest trends & issues in the global and Asia alternative energy arena, International policy updates from Copenhagen negotiations, Climate change and CDM projects
- ✓ **2 Parallel Sessions** packed with comprehensive sessions driving the RE sector and consisting of in-depth presentations on research related to the different renewable energy technologies and practical experiences as follows:
 - ◆ **Stream A** tackling RE in Power Generation (Wind & Solar) both key challenges and technology
 - ◆ **Stream B** tackling Bio-fuels on project development, international trade and 2nd generation technology
 - ◆ **Stream C** tackling Bioenergy (Biomass & Waste to Energy) on strategies and technology
 - ◆ **Stream D** tackling Alternative Energy Project Development in S/E Asia & Mekong Region
- ✓ **4 Focused Sessions Discussing** the dynamics, trends and opportunities in the alternative energy sector in Nuclear power plants, Phuket Waste to Energy project, Australia's Black coal industry, and SPP for RE
- ✓ **Plus! Interactive Panel Discussion** on the impacts of alternative fuel developments in Thailand

An Executive Optional! one-day meeting platform on "**Renewable Project Finance**" is to be organized in conjunction with the Alternative Energy Thailand Forum 2010 on **Friday, 26 March 2010** to address the private sector financing, infrastructure and RE funds, lessons learned on biogas project financing, energy efficiency in Asia, the benefits of carbon credit sales in solar farms, as well as technical & legal considerations for project financing, as related to alternative energy sources will be discussed.

Alternative Energy Thailand Forum 2010 conference offers a unique and extensive opportunity to learn about renewable energy from Thailand and world leaders in the industry bringing regional focus to the country. Knowledge and insight shared is invaluable. Grasp this great chance to establish valuable business contacts, network with key decision-makers and acquire 1st hand strategic and market information that you need to make profitable investment decisions. This pivotal energy event will bring your understanding of this crucial area up to speed! You'll not only gain a thorough understanding of the direction of the industry, but be better able to position yourself to capitalize on the vast new build opportunities.

Mark your calendar now for **Alternative Energy Thailand Forum 2010** & we look forward to seeing you in **March 2010**.

ADMINISTRATIVE DETAILS

METHODS OF PAYMENT:

- Crossed bank draft in US Dollar payable to
ASIA BUSINESS FORUM (THAILAND) LTD
- Telegraphic Transfer to: **Siam Commercial Bank**
Ploenchit Branch, 518/5 Ploenchit Road, Bangkok 10330, Thailand
Account No : 059-3-02541-2
(Kindly fax your payment transfer slip to +66 0 2652 1533,
after your payment is made.)

Payment is required with your registration. An admission form will be sent to you prior to the conference. Walk-in delegates with payment will be admitted subject to space availability.

FOR NORMAL REGISTRATION

In order to avoid any inconvenient circumstances to delegates at the conference, payment should reach us 7 days prior to the conference date.

CANCELLATION

If you are unable to attend, a substitute delegate is welcomed at no extra charge. Please provide the name and title of the substitute delegate at least 2 working days prior to the Conference. A refund less USD 150 administration charge will be made for cancellation received in writing on or before **4 March 2010**. Regrettably, no refund can be made for cancellation received after this date. A complete set of documentation will however be sent to you.

(Asia Business Forum reserves the right to the final decision if any dispute arises)

5 EASY WAYS TO REGISTER OR ENQUIRE



HOTLINE: (66 02) 652 0806
TELEPHONE: (66 02) 254 8321-4



FAX: complete and send this registration form to : **(66 02) 652 1533**



MAIL: ASIA BUSINESS FORUM (THAILAND) LTD
14/F, Maneeya Center Building, 518/5 Ploenchit Road,
Lumpini, Pathumwan, Bangkok 10330, Thailand



EMAIL: abf.brochure@abf-asia.com



WEB: http://www.abf-asia.com

ENQUIRIES

Please call Khun Charalrat or Khun Pawika - Conference Administrator at Tel: (66 02) 254 8321-4 if you need more information about the conference.

INCORRECT MAILING INFORMATION

It is possible that you will receive multiple mailings of this event or incorrect company details on the labels, for which we apologise. If this happens, please let us know so that we can update our database immediately. If you do not wish to have your name on our mailing list, please let us know and we will remove it.

*The organiser reserves the right to amend programs without notice.
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CONFERENCE REGISTRATION FORM

Please register the following delegate (s) for the conference on: **Alternative Energy Thailand Forum 2010**

1) Name : _____ Attending 2-Day Conference: Day 1 (choice of A or B) Stream A Stream B
Position : _____ (please select) Day 2 (choice of C or D) Stream C Stream D
Business Email : _____ Attending Day3 (optional) Yes No

2) Name : _____ Attending 2-Day Conference: Day 1 (choice of A or B) Stream A Stream B
Position : _____ (please select) Day 2 (choice of C or D) Stream C Stream D
Business Email : _____ Attending Day3 (optional) Yes No

Company : _____

Address : _____

City : _____ Zip Code : _____ Country : _____

Tel : _____ Fax : _____ Company Email Address : _____

Name & Title of Approving Manager : _____

Nature of Business : _____

(Please photocopy for more delegates. Kindly fill in the registration form in English.)

REGISTRATION INFORMATION (Please check as appropriate)

10% discount for a group of minimum of 3 registrations from the same company. Group Discount is applicable for Option A only.

Fee for one delegate (Fee includes lunch, refreshments, and full conference documentation)	<input type="checkbox"/> A. 2 days Conference (24-25 Mar)			<input type="checkbox"/> B. 3 days Conference (24-26 Mar)			<input type="checkbox"/> C. 3 rd day Only (26 Mar)	
	Super Early Bird	Early Bird	Normal	Super Early Bird	Early Bird	Normal	Normal	
	Registration Fee	USD 1,295.00	USD 1,395.00	USD 1,595.00	USD 1,845.00	USD 1,945.00	USD 2,145.00	USD 995.00
+7% VAT	USD 90.65	USD 97.65	USD 111.65	USD 129.15	USD 136.15	USD 150.15	USD 69.65	
TOTAL PAID	USD 1,385.65	USD 1,492.65	USD 1,706.65	USD 1,974.15	USD 2,081.15	USD 2,295.15	USD 1,064.65	

OUR TAX ID NO : 3 01 1 30909 4

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CONFERENCE VENUE & ACCOMMODATION INFORMATION

For reservations, please make your bookings directly with the hotel. To enjoy the special room rates, please quote Asia Business Forum's "**Alternative Energy Thailand Forum 2010**". Hotel bills are to be settled by delegates directly with the hotel. For our record, please tick the nights of your reservations:

24-25 March 2010
swissôtel NAI LERT PARK BANGKOK
2 Wireless Road, Bangkok 10330, Thailand
Tel: (66 02) 253 0123
www.nailertpark.swissotel.com
Email: reservations@nailertpark.swissotel.com

- 23 Mar 24 Mar 25 Mar 26 Mar 27 Mar