



# Alternative Energy Summit Thailand 2011

**22-23 SEPTEMBER 2011**  
**PLAZA ATHENEE BANGKOK, THAILAND**

**SUPER SAVE RATE Applied Until 8 August 2011**  
**GROUP PROMO RATE is Available for Minimum 2 Registrations**

THE ONLY CONFERENCE IN THAILAND EXAMINING THE LATEST INDUSTRY & BUSINESS TRENDS, HIGH - LEVEL OF PENETRATING CONTENTS, CALIBER GUEST SPEAKERS AND REAL PROFESSIONAL NETWORKING

<p><b>SPECIAL ADDRESSES FROM :</b></p> <ul style="list-style-type: none"> <li>• Ministry of Energy</li> <li>• Thailand Board of Investment (BOI)</li> <li>• Ministry of Agriculture and Cooperatives</li> <li>• Thailand Greenhouse Gas Management Organization (TGO)</li> </ul>	<p><b>STREAM A: RENEWABLE ENERGY IN POWER GENERATION</b></p> <ul style="list-style-type: none"> <li>• RE, Co-Generation and Distributed Generation in Power Generation</li> <li>• Investment Climate for RE Projects in Thailand</li> <li>• 2.4 Mw Lop Buri Solar Park : How to Maximize Energy Yields &amp; ROI</li> <li>• Successfully Developing a Carbon Project in Energy &amp; Power Sector</li> </ul>
<p><b>9 MAIN PLENARY SESSIONS :</b></p> <ul style="list-style-type: none"> <li>• Global and Regional Challenges &amp; Key Considerations</li> <li>• From the Copenhagen Accord to the Cancun Agreement and Onwards</li> <li>• Trends, Opportunities and Implications in Asia</li> <li>• Investment Prospective from Power Producer</li> <li>• Quality and Standards of Renewables</li> <li>• Keeping Abreast on Climate Change Policies &amp; Mitigation Options</li> <li>• CDM Policy, Opportunity and Carbon Finance in Thailand</li> <li>• Thailand: Practical Considerations for Financing RE Projects</li> <li>• Inception to Leveraging Return of Clean Energy Projects Portfolio</li> </ul>	<p><b>STREAM B: NEXT GENERATION BIO-FUELS &amp; NEW FEEDSTOCKS</b></p> <ul style="list-style-type: none"> <li>• Thailand's Outlook for Sustainable Production &amp; Feedstock Availability</li> <li>• Future of Biofuels in South East Asia and Greater Mekong Subregion (GMS)</li> <li>• International Trade, Market Integration and Pricing of Biofuels and Ethanol in Asia &amp; Thailand</li> <li>• Asia and Thailand: Next Generation Biogas</li> </ul>
<p><b>HEAR!! LATEST CASES FROM :</b></p> <ul style="list-style-type: none"> <li>• Electricity Generating Authority of Thailand (EGAT)</li> <li>• Conergy Renewable Energy Singapore</li> <li>• Sindicatum Carbon Capital</li> </ul>	<p><b>PANEL DISCUSSION</b></p> <p><b>“Future of Thailand's Renewable Energy: The Road Towards Sustainable Development”</b></p> <p><b>Network &amp; Hear First Hand Information, Policies, Regional Perspectives, Case Studies &amp; Strategic Issues Presented by Over 23+ Leading Organizations!</b></p>

PANEL OF REGIONAL & LOCAL ORGANIZATIONS FROM :



ORGANIZED BY :

OFFICIAL MEDIA PARTNERS :

ENDORSERS :



AEST 2011

# ALTERNATIVE ENERGY SUMMIT THAILAND

# 2011

## DEAR DELEGATE,

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, Thai Government has stated to provide support for the promotion of alternative energy sources. The Government has placed the use of alternative energy in the national agenda and under the 15-year Alternative Energy Development Plan, Thai government will increase the share of alternative energy to 20% and create 40,000 jobs in renewable energy industry by 2022. And 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, "ALTERNATIVE ENERGY SUMMIT THAILAND 2011" 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. renewable energy, coal, nuclear and energy efficiency are to be highlighted!

## ABOUT AEST 2011

“AEST 2011 offers a unique and extensive opportunity to learn about alternative 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!”

## AGENDA AT A GLANCE

### DAY ONE: THURSDAY, 22 SEPTEMBER 2011

#### OPENING - MAIN PLENARY SESSIONS:

- Update on Thailand's national energy policy and progress of Renewable Energy Development Plan (REDP)
- Global and regional challenges facing alternative energy sector & key considerations for market players
- From the Copenhagen accord to the Cancun agreement and onwards: International climate policy & renewable energy investment in Thailand
- Trends & opportunities in renewable energy investment and implications in Asia
- Renewable energy development & deployment: Investment prospective from power producer
- Quality and standards of renewables as key factor for sustainable investments and energy security
- BOI policy & investment incentives for promoting alternative energy investment in Thailand
- **PANEL DISCUSSION: Future of Thailand's renewable energy: The road towards sustainable development**

#### CLOSING - MAIN PLENARY SESSIONS:

- Keeping abreast on climate change policies & mitigation options through alternative energy technology
- Update on CDM policy, opportunity and carbon finance in Thailand
- Thailand: Practical considerations for financing renewable energy projects
- Inception to leveraging return of clean energy projects portfolio: First-hand experience from investor's perspective

### DAY TWO: FRIDAY, 23 SEPTEMBER 2011

#### STREAM A: "RENEWABLE ENERGY IN POWER GENERATION"

- Update on renewable energy, co-generation and distributed generation in power generation: Regional & local focused
- Examining investment climate for RE projects in Thailand: Biomass for heat & power, biofuels, biogas and wastes
- 2.4 MW Lop Buri Solar Park - How to maximize energy yields and return on investment
- Successfully developing a carbon project in the energy and power sector

#### STREAM B: "NEXT GENERATION BIO-FUELS & NEW FEEDSTOCKS"

- Thailand's outlook for sustainable production & feedstock availability: Market developments, trends and prices
- Future of biofuels in South East Asia and Greater Mekong Subregion (GMS)
- Update on international trade, market integration and pricing of biofuels and ethanol in Asia & Thailand
- Next generation biogas: Potential developments in Asia and key opportunities for Thailand

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!

## WHO YOU WILL MEET AT AEST 2011:

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

"ALTERNATIVE ENERGY SUMMIT THAILAND 2011" - AEST 2011 to be held during 22-23 September 2011 at Plaza

## WHY AEST 2011?

Athenee Bangkok, A Royal Meridien Hotel, Thailand. This high-profile two-day event will bring together **23+** top-notch professionals and practitioners from Thailand and regional markets to share the latest insights and experiences of the industry!

- ✓ **Unparalleled executive-level networking opportunities!** Meet with authorities, industry experts & your peers both in Thailand and abroad for new business development opportunities
- ✓ **Benefit from critical information sharing over 23+ presentations** on a single meeting platform and grasp all aspects needed for your profitable decision-makings
- ✓ **Hear first-hand information** on government policy, new directives and incentives on alternative energy in Thailand
- ✓ **International viewpoints!** Benefit from vital regional issues and lessons learned from alternative energy trends & developments
- ✓ **Real-life case studies!** Learn from practitioners' success stories about their project developments on alternative energy sources

# ALTERNATIVE ENERGY

## SUMMIT THAILAND 2011



**22-23** SEPTEMBER 2011  
PLAZA ATHENE BANGKOK, THAILAND

ORGANIZED BY  
**BMN**  
BUSINESS & MANUFACTURING  
NETWORK MEDIA CO., LTD.

**platts** GREEN  
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ENERGY SAVING

METALWORKING

Plant  
management

MEDIA PARTNERS

## DAY ONE: THURSDAY, 22 SEPTEMBER 2011

### MAIN PLENARY SESSIONS

8:00-8:45 Delegates & Media Registration

8:45-9:00 Welcome & Opening Remarks by the Chairperson



**Dr. Stephen P. Etheridge, Chief Executive Officer  
BIOTRIX ASIA CO., LTD.**

Dr. Etheridge has more than 25 years experience in the design, construction and development of biogas plants and solid waste management projects and has been involved in a wide range of renewable energy and environmental programmes in Europe, US and Asia. He was an advisor for China's national Biogas Action Plan

developed with UN funding, and is an editor for Process Safety and Environmental Protection (Official Journal of the European Federation of Chemical Engineering). He is now based in Thailand and co-founded Biotrix Asia in 2010. The company already has major projects in Thailand and Indonesia.

9:00-9:45

### SPECIAL ADDRESS

**UPDATE ON THAILAND'S NATIONAL ENERGY  
POLICY AND PROGRESS OF RENEWABLE  
ENERGY DEVELOPMENT PLAN (REDP)**

**Dr. Sarawut Kaewthip, Director  
Office of Public Participation in Energy  
MINISTRY OF ENERGY**

Dr. Sarawut Kaewthip 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.



9:45-10:30

### INTERNATIONAL VIEWPOINTS

**GLOBAL AND REGIONAL CHALLENGES FACING  
ALTERNATIVE ENERGY SECTOR & KEY CONSIDERATIONS  
FOR MARKET PLAYERS**



**Duncan Ritchie, CEO  
AEQUERO, HONG KONG**

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.

10:30-11:00 Morning Refreshments & Networking

11:00-11:45

**FROM THE COPENHAGEN ACCORD TO THE CANCUN  
AGREEMENT AND ONWARDS: INTERNATIONAL CLIMATE  
POLICY & RENEWABLE ENERGY INVESTMENT IN THAILAND**

**Ingo Puhl, Chief Growth Officer and Managing Partner  
SOUTH POLE CARBON ASSET MANAGEMENT LTD.  
(SWITZERLAND) & Managing Director  
SOUTH POLE CARBON (THAILAND)**



Ingo Puhl has been in the carbon market for 15 years in various capacities. He is currently in charge of South Pole's work on scaled-up carbon market mechanisms which includes the development of one large PoA in Thailand and South Pole's work on NAMA. Prior to this he developed South Pole's presence in Thailand which includes a large CDM and VER project portfolio. Ingo also has a strong background in carbon market policy making through his previous work for the International Energy Agency on CDM design issues and as a consultant to various entities involved in the design of the EUETS in Germany. In his current role for SP, he is actually coming back to the world of international carbon policy making. Ingo holds a degree in Mechanical Engineering and Management. He lives in Bangkok with his family.

11:45-12:30

**TRENDS & OPPORTUNITIES IN RENEWABLE ENERGY  
INVESTMENT AND IMPLICATIONS IN ASIA**



**Anthony Segadelli, Managing Director  
OWL ENERGY LTD.**

Mr. Segadelli is the founder and Managing Director of OWL Energy, which is a power engineering consultancy and the second largest in its sector in Thailand. Mr. Segadelli has worked in Asia all his engineering life.

He is highly experienced in renewable energy projects throughout the project lifecycle from initial concept through development to construction management and special projects for developers, lenders and insurers. He has worked as both an Engineer and Project Manager / Director on a wide range of renewable energy technologies including wind, solar, hydro, biomass, biogas and MSW plus energy efficiency improvements. He is also developing a fuel switching project as an equity investor.

12:30-14:00 Business Lunch  
14:00-14:45

### RENEWABLE ENERGY DEVELOPMENT & DEPLOYMENT: INVESTMENT PROSPECTIVE FROM POWER PRODUCER

- Overview of Thailand electric supply industry
- RE project updates from EGAT
- New projects development and prospects
- Assessing the future investment opportunities & plans
- Key considerations for project investment from developer's perspective



**Saharath Boonpotipukdee, Senior Engineer  
Project Development and Planning  
ELECTRICITY GENERATING AUTHORITY  
OF THAILAND (EGAT)**

Saharath had introduced EGAT's experience in engineering consultant services providing to private sectors SPP, IPP, as well as bio-fuel fired power plants i.e. rice husk, bagasse, biogas since 1999. He involved in developing EGAT 15Y (2010-2025) Renewable Energy Plan including solar, wind, small hydro and MSW. He had initiated to implement EGAT RE projects applicable for CDM, six projects have got letter of approval (LOA) from Thailand Greenhouse Gas Management Organization (TGO).

14:45-15:30

### QUALITY AND STANDARDS OF RENEWABLES AS KEY FACTOR FOR SUSTAINABLE INVESTMENTS AND ENERGY SECURITY

- Performance criteria
- Safety assurance
- Bankable project concepts

**Torsten Fritsche, Director of Resource-Efficiency  
& Energy, GERMAN INTERNATIONAL  
COOPERATION (GIZ - DEUTSCHE GESELLSCHAFT  
FÜR INTERNATIONALE ZUSAMMENARBEIT)**



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. GIZ 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 guideline for PCD and biogas are under his responsibility.

15:30-15:45 Afternoon Coffee Breaks & Networking  
15:45-16:15

## SPECIAL ADDRESS

### BOI POLICY & INVESTMENT INCENTIVES FOR PROMOTING ALTERNATIVE ENERGY INVESTMENT IN THAILAND



**Yuthasak Kanasawat, Director  
Investment Strategy & Policy Bureau  
THAILAND BOARD OF INVESTMENT (BOI)**

Director Yuthasak Kanasawat holds a M.A. in Economics from Thammasat University and M.B.A. from Wharton School, University of Pennsylvania, USA. He has joined the Office of the Board of Investment since 1985. His major positions

include Investment Promotion Official, Senior Investment Promotion Officer, Director of Services and Public Utilities Division, and Director of Management Information System Division. Currently, he is Director of Investment Strategy and Policy Bureau, at Thailand Board of Investment (BOI).

16:15-17:15

## PANEL DISCUSSION

### FUTURE OF THAILAND'S RENEWABLE ENERGY: THE ROAD TOWARDS SUSTAINABLE DEVELOPMENT

## INDUSTRY HIGHLIGHT

- Renewable energy situations in Thailand
- Future directions of Thailand's RE
- Recommended strategies & measures for supporting RE development and deployment
- Key highlights of RE roadmaps towards sustainable development



**Moderator:**

**Dr. Stephen P. Etheridge  
Joint Managing Director & CEO  
BIOTRIX ASIA CO., LTD.**

## Panelists:

**Phichai Tinsuntisook, Honorary Chairman  
The Renewable Energy Industry Club  
THE FEDERATION OF THAI INDUSTRIES  
& President, ROYAL EQUIPMENT CO., LTD.**



Phichai Tinsuntisook has more than 23 years of extensive-experience in waste management and energy areas. He has strongly involved in developing these sectors in Thailand. Prior to joining the Federation of Thai Industries as Honorary Chairman of Renewable Energy Industries Club, he was President of Intellectual Property Association for the National Innovation Agency (NIA), Subcommittee (Clean Energy) of the Secretariat of the Senate, Executive Board of NIA for The Ministry of Science and Technology, and the University Council Committee at Rajamangala University of Technology Rattanakosin.

**Torsten Fritsche  
Director of Resource-Efficiency & Energy  
GERMAN INTERNATIONAL COOPERATION  
(GIZ - DEUTSCHE GESELLSCHAFT FÜR  
INTERNATIONALE ZUSAMMENARBEIT)**



**Anthony Segadelli  
Managing Director  
OVL ENERGY LTD.**

17:15 Closing Remarks by the Chairperson & End of Day One

## BMN UPCOMING EVENTS

### CONFERENCE PROGRAM:

- Next Generation THAILAND'S UPCOUNTRY MARKETING (25-26 August 2011)
- ALTERNATIVE ENERGY SUMMIT THAILAND 2011 (AEST 2011, 22-23 September 2011)

### TRAINING PROGRAM:

- LEAN Finance & Finance Transformation (25-26 July 2011)
- ORGANIZATIONAL Risk Management (28-29 July 2011)
- Winning FACEBOOK Marketing (28-29 July 2011)
- Comprehensive FOOD TECHNOLOGY Training (15-16 September 2011)
- Practical Corporate TAX PLANNING & Strategies (15-16 September 2011)

STREAM A

“RENEWABLE ENERGY IN POWER GENERATION”

8:00-8:45 Delegates & Media Registration  
8:45-9:00 Welcome & Opening Remarks by the Chairperson



**Captain Dr. Samai Jai-in, RTN Energy Standing Committee**  
**HOUSE OF REPRESENTATIVE 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).

9:00-9:45

**UPDATE ON RENEWABLE ENERGY, CO-GENERATION AND DISTRIBUTED GENERATION IN POWER GENERATION: REGIONAL & LOCAL FOCUSED**

**Daniel Gäfke, Managing Director**  
**ANNEX POWER, THAILAND**

With more than 10 years professional experience in the environmental and renewable energy business in European and Asian countries, Mr. Gäfke now focuses on the expansion of Annex Power. As Managing Director, he is responsible for all business operations of Annex Power as a turnkey contractor, project developer and consultant for renewable energy solutions in South East Asia. Before Mr. Gäfke joined Annex Power, he built-up and managed the Conergy Indochina office in Bangkok, Thailand. He worked more than 3 years for Conergy Asia Pacific and he was involved in major photovoltaic, wind and bioenergy projects in the Indochina region.



9:45-10:30

**EXAMINING INVESTMENT CLIMATE FOR RE PROJECTS IN THAILAND: BIOMASS FOR HEAT & POWER, BIOFUELS, BIOGAS AND WASTES**

**Anat Prapasawad, Managing Director**  
**ADVANCE ENERGY PLUS CO., LTD.**

Anat Prapasawad serves as a member of the Cleaner Production Committee and has work experience in management of the World Bank's Ozone Project Trust Fund and Thailand Building Chiller Replacement Project. He is also working in the management of Energy Conservation Loans of the Ministry of Energy and development of energy efficiency and renewable energy projects.



STREAM B

“NEXT GENERATION BIO-FUELS & NEW FEEDSTOCKS”

8:00-8:45 Delegates & Media Registration  
8:45-9:00 Welcome & Opening Remarks by the Chairperson



**Bernd Mechsner, Director**  
**ETHANOL THAI LTD.**

For more than 15 years Bernd Mechsner was involved in the techno-economic evaluation and development of projects for the production of fuel ethanol from a variety of novel and traditional raw materials. In 2000 he was appointed Technical Advisor to the Ethanol Club of Thailand (now Thailand Biofuels Foundation). In 2000 he joined Ethanol Thai Development Ltd. as Executive Director for project development and technology. He graduated in Biotechnology and Process Engineering at the Federal Institute for Technology of Switzerland in Zurich in 1985.

9:00-9:45

SPECIAL ADDRESS

**THAILAND'S OUTLOOK FOR SUSTAINABLE PRODUCTION & FEEDSTOCK AVAILABILITY: MARKET DEVELOPMENTS, TRENDS AND PRICES**

- Current state of feedstock production & distribution
- Policy updates and new feedstock options for sustainable bio-fuels development
- Impact of increasing feedstock prices toward bio-fuels
- Analyzing of food prices vs. demand of renewable fuels
- Sustainable way to increase bio-fuels production in Thailand
- Assuring price and availability of feedstock

**Senior Representative, Department of Agriculture**  
**MINISTRY OF AGRICULTURE AND COOPERATIVES**

9:45-10:30

INTERNATIONAL VIEWPOINTS

**FUTURE OF BIOFUELS IN SOUTH EAST ASIA AND GREATER MEKONG SUBREGION (GMS)**

- Biofuels demand potentials and limitations within the region
- Analyzing sources of supply and production
- How to effectively creating investment opportunities throughout the industry and region
- Future directions and recommendations for market players

**Lim Mayli, Executive Chairperson**  
**COSMO BIOFUELS GROUP, MALAYSIA**

Lim Mayli is Executive Chairperson of the Cosmo Biofuels Group, Board Member, Director and Business Development Advisor to many companies in the biofuels and biodiesel industry, including D1 Oils Malaysia, Ark Biofuels International, Infinergy International and the Alam Widuri Group of Companies. She is also Secretary-General of IJO, the International Jatropa Organization, presently being established on a worldwide basis



## STREAM A

# “RENEWABLE ENERGY IN POWER GENERATION”

10:30-11:00 Morning Refreshments & Networking  
11:00-11:45

## INTERNATIONAL VIEWPOINTS

### 2.4 MW LOP BURI SOLAR PARK - HOW TO MAXIMIZE ENERGY YIELDS AND RETURN ON INVESTMENT

To maximize a solar PV plant's energy yields, it is not sufficient to consider only the output and efficiency of a solar PV module. Optimizing the yield of the entire system is more critical and this will require a focus not just on the performance of each individual component but in the performance and reliability of the whole PV system. Considerations related to the integration and interoperability of the modules, inverters, monitoring systems and the plant's engineering and design have to be carefully assessed in order to optimize yields, reduce cost/kWh and maximize an investor's return on investment. Issues related to Project Finance, Project IRR optimization and Carbon Trading will also be discussed.



**Emmanuel Guyot, Director of Project Finance  
Asia Pacific & Middle East  
CONERGY RENEWABLE ENERGY  
SINGAPORE PTE., LTD.**

Emmanuel Guyot specializes in renewable energy project development in emerging markets. He has more than 20 years of experience in the environment and energy sectors. He started his career at EDF (Electricité de France) and then worked for BCEOM (a leading French engineering company) on energy and environment policy framework reforms in Asia, Latin America, Africa and Eastern Europe related to European Commission and World Bank development programs. Afterwards, he joined Theolia and Ecolutions to develop wind farms, biomass and solar plants within the Kyoto protocol framework (CDM projects) to create carbon assets. He recently joined Conergy and is responsible for Project Development in the AP and Middle East region, with a mission to bring equity investors and Conergy together on solar PV plant development.

11:45-12:30

## INTERNATIONAL VIEWPOINTS

### SUCCESSFULLY DEVELOPING A CARBON PROJECT IN THE ENERGY AND POWER SECTOR

- Exploring the current status and trends of CDM projects in the power sector
- CDM project showcases: Challenges & lessons learnt
- Power-related CDM projects: Benefits & opportunities
- Key factors in developing a successful carbon project

**Ravi Krishnaswamy, Vice President  
Energy & Power Systems, Asia Pacific  
FROST & SULLIVAN, SINGAPORE**



Ravi Krishnaswamy heads Frost & Sullivan's Energy & Power Practice in the Asia Pacific region and is based in Singapore. Ravi has spent more than 15 years in the Energy & Power sector as a design engineer, project manager, senior industry analyst and research director. He is also Frost & Sullivan's in house expert on clean technologies, utilities, power generation, power plant MRO and power quality areas. After graduation, Ravi joined ABB Alstom and subsequently he worked for Doosan Babcock, before joining Frost & Sullivan in 2001. Ravi current management responsibilities in Frost & Sullivan include business unit profit & loss, Energy group's geographic expansion, research planning, quality control, industry thought leadership, strategic review of consulting delivery and managing client relationships.

12:30-14:00 Business Lunch

## STREAM B

# “NEXT GENERATION BIO-FUELS & NEW FEEDSTOCKS”

to support the burgeoning global jatropha curcas industry as a source of sustainable, integrable and renewable energy and other co-products. Lim Mayli was consultant previously to D1 Oils plc, a biodiesel technology company listed on the London AIM from 2004, and served concurrently in the capacity of COO South East Asia till 2006, overseeing business development, corporate planning, financial administration and co-ordination of the activities of the respective country managers to meet set planting and refinery sales targets and other key performance indicators.

10:30-11:00 Morning Refreshments & Networking  
11:00-11:45

## INTERNATIONAL VIEWPOINTS

### UPDATE ON INTERNATIONAL TRADE, MARKET INTEGRATION AND PRICING OF BIOFUELS AND ETHANOL IN ASIA & THAILAND

- Asia: Current status of the market & outlook update on consumption needs, demand and supply prospects
- Opportunities and challenges of the bio-fuels market in Thailand
- Sustainability and the progress with 3G/4G bio-fuels in the market
- Key considerations of market development & price structure
- Highlight on market opportunities to export ethanol worldwide
- Exploring how the international trading market is providing an opportunity for Thailand to participate



**Roy Hogger  
Director, Technical and Commercial  
VERTICAL ASIA, SINGAPORE**

Ray graduated in chemistry at Oxford University and is also professionally qualified as Chartered Chemist and Chartered Quality Professional. He 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. Work experience of around 20 years in UK/Europe and 15 years in Singapore and SE Asia, covers manufacturing (pharmaceutical) Quality Control with a major chemical company (alcohols) and, then over 25 years in independent inspection, testing & certification, with SGS, Intertek Caleb Brett, Inspectorate and PSB Corporation Singapore. This was followed by consultancy including projects on fuel and lube technology, blending and additives before moving into the biofuels sector.

11:45-12:30

### NEXT GENERATION BIOGAS: POTENTIAL DEVELOPMENTS IN ASIA AND KEY OPPORTUNITIES FOR THAILAND

**Hans-Dieter Westphal, Managing Director  
RETECH ENERGY CO., LTD.**



Hans Westphal lives for more than 35 years in Thailand and has vast experience in the industrial sector, from project planning and procurement to construction, project management and start up. Since 7 years his company Retech Energy focuses exclusively on the 'Renewable Energy' market and has so far successfully implemented a number of projects in the biomass and biogas field. Hans Westphal has actively contributed to the ongoing development of this industrial sector and has investigated a large number of waste sources in the agricultural, municipal and industrial field. Together with international renowned technology suppliers efficient technologies can now be offered in order to turn Thailand's waste into thermal and electric energy.

12:30-14:00 Business Lunch

CASE STUDY

# MAIN PLENARY SESSIONS

## CHAIRPERSON OF THE FORUM



**Captain Dr. Somai Jai-in, RTN  
Energy Standing Committee  
HOUSE OF REPRESENTATIVE OF THAILAND**

14:00-14:45

## SPECIAL ADDRESS

### KEEPING AHEAD ON CLIMATE CHANGE POLICIES & MITIGATION OPTIONS THROUGH ALTERNATIVE ENERGY TECHNOLOGY

- Updating international environment law & regulation for climate change and their impacts
- Growth prospects for alternative energy and efficiency investment in Thailand
- Critical issues on climate change which should be aware of

### Sirithan Pairoj-Boriboon, Executive Director THAILAND GREENHOUSE GAS MANAGEMENT ORGANIZATION (TGO)



Executive Director Sirithan Pairoj-Boriboon has more than 30 years of extensive experience in Environmental Management, Eco-efficiency and Cleaner Production. Prior to joining TGO, he was Director-General of the Pollution Control Department (PCD), Advisor to the Prime Minister (Civil Service Sector), Councilor on Sciences and Technology for the Royal Thai Embassy in Washington DC, Director of the Division of Environmental Quality Standards at the Office of the National Environment Board. He is also Board Member of Thailand Environment Institute (TEI) Executive Board, Former President & Advisor to Occupational Health and Safety Association and President of Thailand Network of Eco-efficiency and Cleaner Production.

14:45-15:30

### UPDATE ON CDM POLICY, OPPORTUNITY AND CARBON FINANCE IN THAILAND

- Reviewing CDM policy, instrument trends and directions on carbon market in the region
- Key issues in carbon trading & their impacts
- Latest outlook for market opportunities & developments through CDM in Thailand
- Key issues in developing CDM projects in Thailand
- Opportunities & challenges in sourcing carbon credits



### Magnus A. Staudte, Managing Director ENMMA (THAILAND) CO., LTD.

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.

15:30-15:45 Afternoon Coffee Breaks & Networking

15:45-16:30

### THAILAND: PRACTICAL CONSIDERATIONS FOR FINANCING RENEWABLE ENERGY PROJECTS

- Update on financing forms of RE projects and role of carbon financing
- Financial institutions: Criteria for financing RE projects
- Barriers for financing RE projects
- Risk evaluation issues
- How should we scale up the financing for RE?



### Herbert Jaeger, Senior Investment Manager DEG - GERMAN INVESTMENT AND DEVELOPMENT COMPANY

Herbert Jaeger is an experienced investment manager at DEG, the German Investment and Development Company. He has dedicated most of his career to corporate and project finance in Asia. During the past 10 years as investment manager in Thailand, a focus has been on financing renewable energy and energy conservation projects.

16:30-17:15

## INTERNATIONAL VIEWPOINTS

CASE  
STUDY

### INCEPTION TO LEVERAGING RETURN OF CLEAN ENERGY PROJECTS PORTFOLIO: FIRST-HAND EXPERIENCE FROM INVESTOR'S PERSPECTIVE

- Turning intangible concept to tangible assets, first-hand experience from investor's perspective: Meaningful signs to watch out!
- Leveraging returns of clean energy projects portfolio - How to make a clean energy project bankable?
  - ✓ 'To do list' before meeting with bankers
  - ✓ Aligning the mindset of developer & bankers - Key points to be mutually understood
- Case study of the landmark transaction: First and only project landfill gas to energy project financing in Thailand

### David Raubenheimer Managing Director, Direct Projects SINDICATUM CARBON CAPITAL



David joined SCC as Senior Vice President, Power Generation in August 2006. David is now Executive Vice President for Operations in South East Asia where he manages a team of 9 Project Managers and 10 engineers and commercial staff. David is based in Singapore and he and his team operate throughout the region to manage the construction and operation of SCC's projects. David is also involved in technical, construction and operational due diligence on SCC's investment targets. David has over 22 years experience developing, constructing and operating a wide range of power generation projects. Before joining SCC David spent 15 years as Development Director then Operations Director with Energy Power Resources Limited (formerly Fibrowatt Limited) where he was instrumental in developing its fleet of 5 biomass and 4 wind power projects. David started his career working for Centrax Gas Turbines Limited and gained experience on landfill gas and coal mine methane power generation projects. David is a Chartered Mechanical Engineering and is Chairman of the Institution of Mechanical Engineers' Renewable Power Committee.

17:15 Closing Remarks by the Chairperson & End of Summit

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# ALTERNATIVE ENERGY

SUMMIT THAILAND 2011

22-23 SEPTEMBER 2011

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