

3rd BIOGAS ASIA PACIFIC FORUM

2014



DEVELOPING A BIOGAS HUB IN
COMMERCIALIZING BIOGAS FOR ASIA

“Why Malaysia?”

Following 2013's Biogas Asia Pacific Forum, Malaysia is inviting the Biogas Asia Pacific Forum back to Kuala Lumpur to further consolidate Malaysia's masterplan for the Biogas industry. Given recent market developments and opportunities, commercialization of biogas resources in Malaysia will be taking on a new life as projects become commercially viable with increasing natural gas demands.

The Malaysian Biotechnology Corporation will be taking the initiative to consolidate the myriad agencies and stakeholders in the industry to put together a commercial path for the development of biogas in the country. With abundant feedstock scattered across the country, plans need to be made to transport biogas from remote locations to be redistributed. The Biogas Asia Pacific Forum will be the perfect platform to bring international attention to Malaysia's plans for biogas development and furthermore, provide commercial opportunities for suppliers to implement biogas technology.

For more information, please contact:

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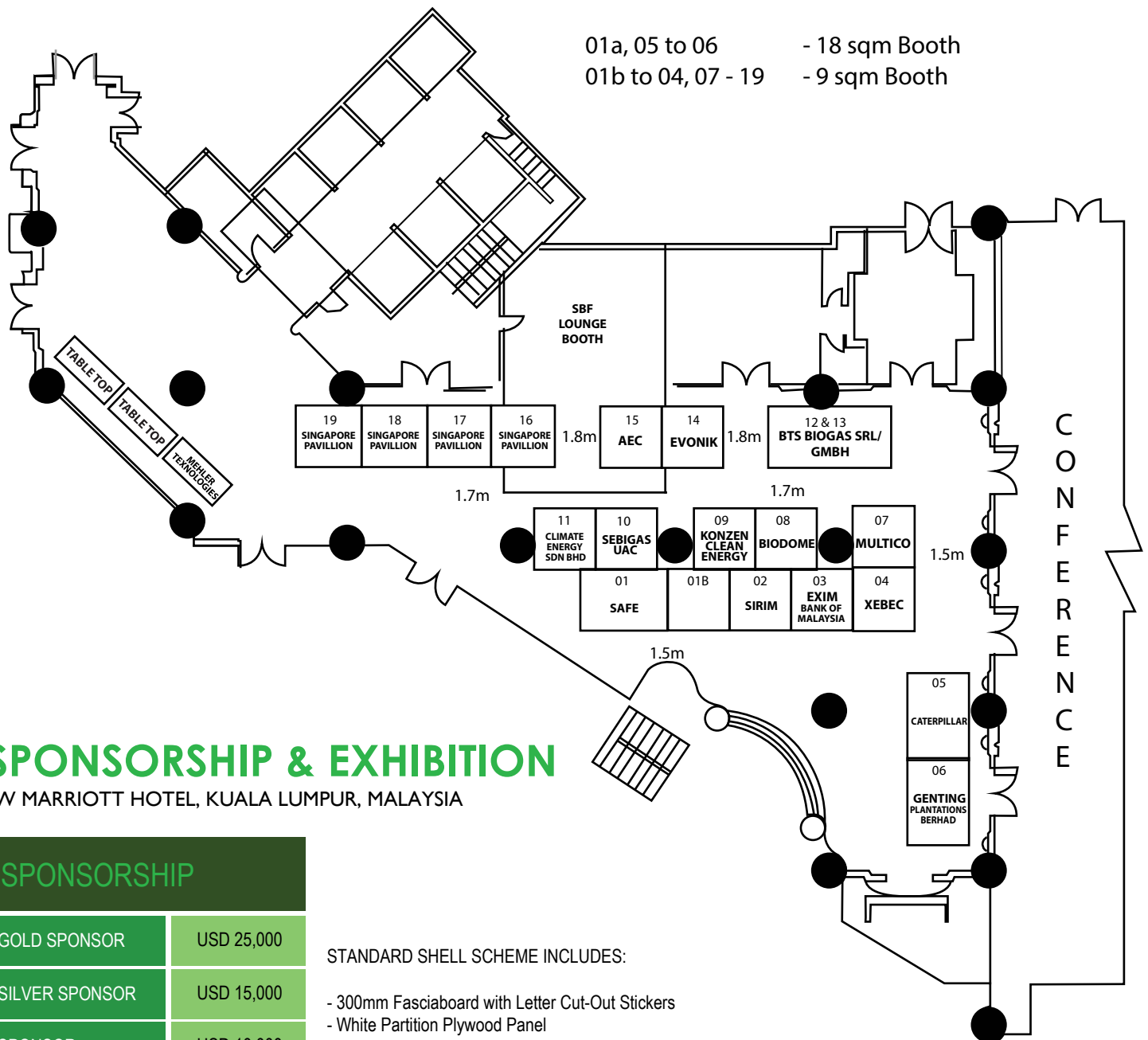


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DEVELOPING A BIOGAS HUB IN COMMERCIALIZING BIOGAS FOR ASIA

FLOORPLAN JW MARRIOTT HOTEL, KUALA LUMPUR, MALAYSIA



SPONSORSHIP & EXHIBITION

JW MARRIOTT HOTEL, KUALA LUMPUR, MALAYSIA

SPONSORSHIP	
GOLD SPONSOR	USD 25,000
SILVER SPONSOR	USD 15,000
SPONSOR	USD 10,000
EXHIBITOR (9m ²)	USD 7,500
EXHIBITOR (4m ²)	USD 5,000

STANDARD SHELL SCHEME INCLUDES:

- 300mm Fasciaboard with Letter Cut-Out Stickers
- White Partition Plywood Panel
- 2 x Stacking Chairs
- 1 x Information Counter
- 1 x Waste Basket
- Booth Carpeting
- 2 x Fluorescent Lampsets
- 1 x Outlet (300 watts only, single phase)

DAY ONE - 02 JUNE 2014

- 08:30 Registration
- 09:00 Opening Remarks
Vincent Choy, *Director, ICESN*
- 09:15 **OPENING KEYNOTE: THE MALAYSIA BIOGAS MASTERPLAN: CREATING A COMMERCIAL BIOGAS HUB**
Razwin Sulairee bin Hasnan Termizi, *Chief Operating Officer MALAYSIA BIOTECHNOLOGY CORPORATION*
- 09:45 Panel:
OPPORTUNITIES IN BIOGAS IN MALAYSIA: CONNECTING OPPORTUNITY WITH MEANS AND TECHNOLOGY
- 1) BIOGAS OPPORTUNITY IN MUNICIPAL SOLID WASTE**
Datuk AB. Rahim Bin Md. Nor
PPSPPA
Speaker to be confirmed
SUSTAINABLE ENERGY DEVELOPMENT AUTHORITY
Sivapalan Kathiravale, *Principal Analyst, Emerging Technology MIGHT (MALAYSIA INDUSTRY GOVERNMENT GROUP FOR HIGH TECHNOLOGY)*
- 10:30 Networking Coffee Break
- 10:45 Panel Discussion
FINANCING BIOGAS IN ASIA: OPPORTUNITIES AND CHALLENGES
Moderated by:
Speaker to be Confirmed
KPMG
Panelists:
Chairil Mohd Tamil, *Deputy President / Chief Business Officer EXIM BANK*
Hwee Song Suan, *Senior International Account Manager CATERPILLAR ASIA*
Mohd Sharizal Mustapah Kamil
Vice President of Business & Technology Advisory MALAYSIAN DEBT VENTURES (MDV)
Speaker to be confirmed
GREEN TECHNOLOGY FINANCING SCHEME
- 11:45 **TOPIC TO BE CONFIRMED**
Azhar bin Abdul Raof, *Head of Renewable Energy Research Centre SIRIM*
- 12:15 Networking Lunch

OPPORTUNITIES IN BIOGAS PRODUCTION

- 13:30 **BIOGAS DEVELOPMENT IN THE MALAYSIAN PALM OIL INDUSTRY: STATUS, POTENTIAL, & FUTURE PROSPECT**
Nasrin Abu Bakar, *Senior Research Officer MALAYSIAN PALM OIL BOARD*
- 14:00 **ENERGY CROP; THE DRIVE TOWARDS THAILAND ALTERNATIVE ENERGY TARGETS**
Pruk Aggarangsi, Ph.D., *Deputy Director Energy Research and Development Institute - Nakornping CHIANG MAI UNIVERSITY, THAILAND*
- 14:30 **MORE EFFICIENCY THROUGH BETTER DESIGN – MAXIMISING YIELDS ON INEFFICIENT BIOGAS PROJECTS**
Speaker to be confirmed
BIODOME ASIA

OPPORTUNITIES IN POWER GENERATION

- 15:00 **BIOGAS AS A TRULY RENEWABLE ENERGY SOURCE: GENERATING POWER THROUGH BIOGAS**
Dr. John C Y Lee, *Sales Manager, Electric Power Division CATERPILLAR INC*
- 15:20 **BIOGAS PROJECTS – A LENDER'S PERSPECTIVE**
Hwee Song Suan, *Senior International Account Manager CATERPILLAR ASIA*
- 15:40 Networking Coffee Break
- 16:00 **CASE STUDY: OPPORTUNITIES IN MALAYSIA'S ENERGY MARKETS FOR BIOGAS POWER**
Speaker to be Confirmed
TENEGA NASIONAL BERHAD
- 16:30 **DEVELOPMENT OF NEW MEDIA (FEEDSTOCK) FOR BIOGAS PRODUCTION**
Prof. Dr. Ir. Maizirwan Mel (MMSET)
Biotechnology Engineering Department, Faculty of Engineering IUM MALAYSIA
- 17:00 End of Conference Day One

DAY TWO - 03 JUNE 2014

- 08:30 Registration
- 09:00 **UPDATES AND THE FUTURE DIRECTION OF THAILAND'S BIOGAS DEVELOPMENT PLANS**
 Jariya Budnard, Engineer, *Biogas Group Department of Alternative Energy Development and Efficiency (DEDE)*
MINISTRY OF ENERGY, THAILAND
- 09:20 **THE IMPORTANCE OF HIGH-END COMPRESSION IN BIOGAS UPGRADING**
 Jonas Giuliani, *Asia Pacific Markets Development Manager*
SAFE S.P.A.
- 09:50 **TRENDS IN BIOGAS COMMERCIALIZATION**
 Mark Leslie, *CEO*
ALTERNATIVE ENERGY CORPORATION
- 10:20 **EVOLVING INTO ASEAN BIOGAS MARKET - A STORY BY A BIONEXUS STATUS RENEWABLE ENERGY COMPANY**
 Jesse Wong, *Senior Manager*
KONZEN CLEAN ENERGY SDN BHD
- 10:50 Networking Coffee Break
- 11:10 **AN INTRODUCTION TO MEMBRANE TECHNOLOGIES IN BIOGAS UPGRADING**
 Representative
EVONIK
- 11:40 **VALORIZATION OF BIOGAS THROUGH LIQUEFACTION OF BIO-METHANE**
 Representative
AIR LIQUIDE
- 12:10 **THE ADVANTAGES OF PRESSURE SWING TECHNOLOGY IN BIOGAS UPGRADING**
 Representative
XEBEC
- 12:40 Networking Lunch
- 13:40 **BIOGAS AS A KEY IN FUTURE ENERGY SYSTEMS - TRENDS IN GERMANY AND OPPORTUNITIES IN DEVELOPING AND EMERGING COUNTRIES**
 Clemens Findeisen, *Consultant Development Cooperation*
GERMAN BIOGAS ASSOCIATION
- 14:00 **OPPORTUNITIES FOR BIOGAS AS AN ALTERNATIVE NGV FUEL**
 Lee Giok Seng, *Executive Director*
ASIA PACIFIC NATURAL GAS VEHICLES ASSOCIATION (ANGVA)

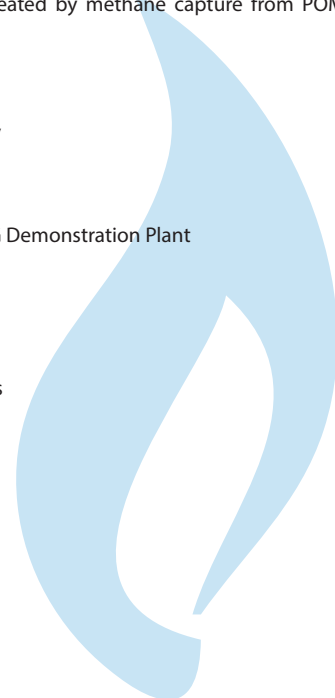
- 14:30 **CASE STUDY: MUNICIPAL WASTE AND LANDFILL GAS PROJECT IN THE MIDDLE EAST – POWERING DUBAI'S NGV PROGRAMME**
 Fazal Ali Khan, *CNG Manager*
EMIRATES GAS
- 15:00 **CASE STUDY: CBG FROM AGRICULTURAL WASTE WATER AS A COST EFFECTIVE ALTERNATIVE FUEL FOR THAILAND**
 Methar Thongma, *Manager, NGV Business & Product Development Division, NGV Strategy & Business Development Department*
PTT PUBLIC COMPANY LTD
- 15:30 Networking Coffee Break
- 16:00 **CASE STUDY: LIQUEFIED BIOGAS PROJECT FOR VEHICLES IN THE PHILIPPINES**
 Richard Lileystone, *CEO*
GAZASIA
- 16:30 **CASE STUDY: THE ECONOMIC POTENTIAL OF DME PRODUCTION FROM BIOGAS**
- 17:00 End of the Biogas Asia Pacific Forum

SITE TOUR TO BIOGAS PLANT IN CAREY ISLAND

Technical visit to Malaysia's first bio-natural gas (BioNG) demonstration plant in Carey Island, Selangor, Malaysia. The SIRIM-SIME DARBY plant is the first project built in Malaysia to create BioNG as a petrol/diesel replacement and is developed to commercialise the enormous potential created by methane capture from POME treatment.

ITINERARY – 04 JUNE 2014

- 07:00 Meet at JW Marriott Hotel Lobby
- 07:15 Bus leaves for Carey Island
- 08:30 Bus arrives in Carey Island BioNG Demonstration Plant
- 08:40 Briefing
- 09:00 Technical Tour
- 10:30 End of Technical Tour/Bus Leaves
- 12:00 Bus arrives at JW Marriott Hotel



BIOMASS & BIOGAS | 04 - 05 JUNE 2014 FUNDAMENTALS TRAINING

Several countries in Southeast Asia have recently introduced new regulations and incentives to stimulate the development of clean energy. With a large agro-industrial sector, the region has numerous opportunities for biomass and biogas projects that present a gateway for investors and financial institutions to participate in the rapidly growing clean energy market.

Assessment of these opportunities requires a thorough understanding of the technologies and associated issues. This course discusses the key elements of biomass and biogas projects and factors that you need to be aware of during project assessment.

COURSE CONTENT

DAY 1:

- Clean Energy Opportunities in Southeast Asia
- Key Elements of Clean Energy Finance
- Introduction to Biomass And Biogas: Technologies and Applications
- Case study I: Biomass Power Plant

DAY 2:

- Business Models and Project Structures
- Contractual Arrangements and Legal Issues
- Risk Assessment and Mitigation
- Case study II: Industrial Biogas Plant

COURSE HIGHLIGHTS

In this 2-day course, you will learn about:

- Characteristics and typical applications of biomass and biogas
- Suitable business models and examples of projects in the region
- The main risks and approaches to mitigate these
- Assessment of biomass and biogas projects through two highly interactive case studies, including business plan review and financial analysis.

The course will be held in an informal setting with a limited number of participants, allowing for questions and group discussions. The course content is practical, based on actual investment experiences and directly applicable to your investment and financing activities. After the course, you will be able to conduct a critical review of biomass and biogas projects. The course will be led by an industry expert with extensive experience in clean energy finance in Southeast Asia.

ABOUT THE TRAINER

Mr. Joost Siteur has fourteen years of experience in clean energy in Southeast Asia, with a focus on finance and capacity building. Based in Thailand, he currently serves as an advisor to investment companies and financial institutions across the region. Previously, he was an investment officer with a clean energy investment company, responsible for the identification and assessment of investment opportunities as well as asset management in several Southeast Asian countries. He holds an MSc in Electrical Engineering from the University of Twente in the Netherlands.

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02 – 04 JUNE 2014 | JW MARRIOTT HOTEL, KUALA LUMPUR, MALAYSIA

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3rd BIOGAS ASIA PACIFIC FORUM (02 - 04 June 2014)

- 2 DAYS CONFERENCE
- 2 DAYS CONFERENCE + SITE TOUR

Regular
USD 1,000
USD 1,200

BIOMASS & BIOGAS FUNDAMENTALS TRAINING (04 - 05 June 2014)

- INDIVIDUAL
- GROUP OF 3 OR MORE (PER TRAINEE)
- GROUP OF 5 OR MORE (PER TRAINEE)

Regular
USD 1,500
USD 1,200
USD 1,000

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