



GREEN SYMPOSIUM 2019 "SUSTAINABLE EXCELLENCE VIA INNOVATIVE ENGINEERING"

27th - 28th November 2019

INTRODUCTION

Global warming and climate change are no longer hypothesis but is real, happening and we experience it now.

Energy generations, industrial processes, transportation and human lifestyle are main culprits for the increase of greenhouse gas emissions to the atmosphere that causes global warming and climate change. Engineers are involved in all those activities, and now, is the time for engineers to contribute to preserve this planet.

Issue of plastic pollutants, energy management and low carbon economy are among hot topics now. What are the engineers' roles here? And how can they innovatively provide solutions and create business opportunities that term as sustainable excellent.

Organized by:

Environmental Engineering Technical Division, The Institution of Engineers, Malaysia

In Collaboration with:
International Green Training Centre Sdn Bhd

Venue:

Armada Hotel, Petaling Jaya (Day 1) & Wisma IEM, Petaling Jaya (Day 2)

DAY 1 : BEM Approved CPD/PDP Hours : 5.5 DAY 2 : BEM Approved CPD/PDP Hours : 6.0 (Ref. no: IEM19/HQ/484/C)

SITE VISIT: BEM Approved CPD/PDP Hours: 3 (Ref. no: IEM19/HQ/488/V)

GUEST OF HONOUR



DR. NAGULENDRAN KANGAYATKARASU (MESTECC)

KEY SPEAKER



EN SAIFUL ADIB BIN
ABDUL MUNAFF
Malaysia Green
Technology Corporation
(MGTC)

TENTATIVE PROGRAMME

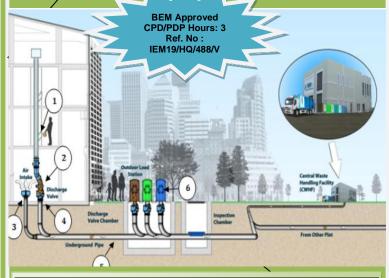
	TENTATIV	E PROGRAMME				
Date	Time	Event/Activity				
	0830-0900	Registration & Welcome Breakfast at Armada Hotel, PJ				
	0900-0915	Welcoming Address by Organizing Chairman – Ir. Santha Kumaran				
	0915-0930	Welcoming Address by Standing Comm on Activities – First Admiral Dato' Ir. Hj. Ahmad Murad bin Hj. Omar				
	0930-0945	Opening Ceremony & GoH Speech by MESTECC – Dr. Nagulendran Kangayatkarasu				
	0945-1000	Group Photo Session				
	1000-1030	Morning Coffee/Tea Break				
	1030-1145	Keynote Lecture (Speaker 1) By: En. Saiful Adib Bin Abdul Munaff (MGTC) Topic: Low Carbon City Framework (LCCF) – Engineer Role				
	1145-1200	Q&A Session 1				
	1200-1330	Lunch				
	1330-1415	Speaker 2 By: En. Zulkiflee Umar (Suruhanjaya Tenaga) Topic: Energy Performance Contracting (EPC)				
Day 1	1415-1430	Q&A Session 2				
(27 Nov 19) Wednesday	1430-1515	Speaker 3 By: En. Edisham Mohd Sukor (SEDA) Topic: Net Energy Metering				
	1515-1530	Q&A Session 3				
	1530-1600	Afternoon Coffee/Tea Break				
	1600-1645	Speaker 4 By: En. Ismail bin Hj Abdullah (IGTC SB) Topic: Sustainable Excellence: The Way Forward For Future Business				
	1645-1700	Q&A Session 4				
	1700-1730	Speaker 5 By: Mr Simon Wong (Solar Plus Sdn Bhd) Topic: Is Sustainability A Myth? The Direction Of Solar Energy In Malaysia				
	1730-1745	Q&A Session 5				
	1745	End of Day 1				
	0830-0900	Registration & Welcome Breakfast at Wisma IEM, PJ				
	0900-0940 0940-0955	Speaker 6 By: Puan Nor Haswani Binti Kamis MESTECC Topic: Road Towards Zero Single Use Plastic Q&A Session 6				
Day 2 (28 Nov 19) Thursday	0955-1035	Speaker 7 By: Datuk Lim Kok Boon, President, MPMA Topic: The Importance of Plastic Sectors Economically and Ways To Dispose While Preserving The Green				
Thursday	1035-1050	Q&A Session 7				
	1050-1120	Morning Coffee/Tea Break				
	1120-1200	Speaker 8 By: Mr. Omanthiram K, Director of Gloteq Sdn. Bhd Topic: Plastic Manufacturing: The Legal Requirement Point of Consideration				
	1200-1215	Q&A Session 8				
	1215-1300	Lunch				
	1300-1700	Site Visit to Automated Waste Collection Site in KLIA2				

WHO SHOULD ATTEND?

Officials from all sectors in the Solar Energy, Biomass, Oil & Gas, Nuclear Power, Innovative infrastructure and building design, housing, economic development, communications etc. Relevant private sector, Community representatives, Engineering organizations, City and State officials from energy related organization, planning and housing, Architects, Planners, Engineers, Quantity Surveyors, Geologist, Scientists and others who are stakeholders and interested in the Green Technology are welcomed to attend the Symposium.

SITE VISIT – (coach will be provided)

STREAM ENVIRONMENT SDN BHD - AUTOMATED WASTE COLLECTION IN KLIA



Time	Activity
2.00pm	Gather at Kuala Lumpur International Airport (KLIA2) Bus Drop Off Point
2.15pm	Short brief on KLIA2 Automated Waste Collection System
2.30pm	Visit Automated Waste Collection System (AWCS)
4.30pm	Q&A session
5.00pm	End of Site Visit

Green Symposium Secretariat c/o The Institution of Engineers, Malaysia Bangunan Ingenieur, Lots 60&62, Jalan 52/4, P.O. Box 223 (Jalan Sultan)

46720 Petaling Jaya, Selangor Darul Ehsan, MALAYSIA Tel No: +(603) 79684021 Fax No: +(603) 7957 7678 E-mail: ezzaty@iem.org.my



Day 1
27 Nov 2019
(Wednesday)

10.30am - 11.45am

ENCIK SAIFUL ADIB BIN ABDUL MUNAFF

Head of Division - Smart Sustainable Cities, Malaysia Green Technology Corporation (MGTC)

TOPIC: LOW CARBON CITY FRAMEWORK (LCCF) - ENGINEER ROLE

SYNOPSIS

The Low Carbon Cities Framework (LCCF) is guide to assist Local Authorities in transforming their cities into low carbon cities. In June 2019, MESTECC and MGTC launched the Low Carbon Cities 2030 Challenge to establish 200 Low Carbon Zones and 1,000 Low Carbon Partners throughout Malaysia. In these Low Carbon Zones, cities aim to reduce their emissions from energy and water consumption, emissions from petrol and diesel private vehicle use, emissions from waste ending up in landfills and increase sequestration from planting more trees and preserving existing green areas. Engineers across all fields have a vital role to play in helping cities transform their existing built environment as well as ensure that new developments do not add to the problem.

SAIFUL ADIB BIN ABDUL MUNAFF is the Head of Low Carbon Cities at the Malaysian Green Technology Corporation (GreenTech Malaysia). He works closely with States and Local Governments and assists them to transform their cities into low carbon cities. After spending nearly a decade working in sustainable development across various industries, Saiful has developed an appreciation of the complexities of sustainable development and the challenges in truly making our cities low carbon. At the core of it, he believes that it is about how well we connect with the people we are trying to help and communicate our understanding back to them.

Saiful is a certified Green Building Facilitator, Energy Manager, BIM Professional and a Trainer.

Saiful holds a Masters Degree in Sustainable Development from the University of New South Wales and a BSc in Electrical & Electronics Engineering from the University of Technology, PETRONAS.



Day 1
27 Nov 2019
(Wednesday)

1.30pm - 2.15pm

ENCIK ZULKIFLEE UMAR

Deputy Director Energy Efficiency & Conservation, Suruhanjaya Tenaga TOPIC: ENERGY PERFORMANCE CONTRACTING (EPC)

SYNOPSIS

The EPC concept for the Government Sector was approved by the Cabinet in January 2013. The objectives are:

- Savings on government expenditure in terms of investment capital to carry out energy saving activities in government buildings.
- The government will gradually rationalize electricity subsidies to create incentives for industries and consumers to implement energy-efficient practices.
- To expedite the implementation of energy-efficient practices in Government buildings.

Impact and Benefits:

- No capital expenditure to the government. All the cost of investment is borne by ESCO.
- Payment to ESCO from operating expenditure.
- Saving on electricity bills and achieve the government's annual energy saving target
- Improving energy efficiency management practices among owners and users of government buildings.

- To drive the energy efficiency industry to be more viable with the involvement of Energy Service Companies (ESCOs).
- Ensuring a more comprehensive and sustainable maintenance program for government buildings.
- All the equipment / systems belong to the government after EPC implementation.

ZULKIFLEE UMAR begins his career with Energy Commission Malaysia in 2005 in the Legal Department performing enforcement tasks under the Electricity Supply Act 1990 and Gas Supply Act 1993. Shift to the Department of Gas Development and Regulation of Energy Commission Malaysia in 2008 performing tasks related to the safety of gas installations. Appointed as the Head of Demand Side Management Unit in 2012 now known as Energy Efficiency & Conservation Unit performing the following duties and responsibilities:

- 1) Enforcement and promotion of the Efficient Management of Electrical Energy Regulations (EMEER) 2008.
- 2) Minimum Energy Performance Standards (MEPS) Requirements for domestic and industrial appliances.
- 3) Registration of Registered Electrical Energy Manager (REEM) and Energy Service Companies (ESCO)
- 4) Promotion of Energy Audit and Retrofit and Energy Performance Contracting (EPC).
- 5) Energy Efficiency Project and Financing activities.
- 6) National Energy Efficiency Action Plan (2016-2025).
- 7) Energy Efficiency and Conservation activities in Malaysia.

Academic Achievement

Bachelor of Mechanical Engineering (Hons.), University of Wollongong, NSW, Australia



Day 1
27 Nov 2019
(Wednesday)

2.30pm - 3.15pm

ENCIK EDISHAM MOHD SUKOR

Senior Deputy Director of Market Operations, (SEDA)

TOPIC: NET ENERGY METERING

SYNOPSIS

The concept of Net Energy Metering (NEM) 2.0 (wef 1st Jan 2019) is that the energy produced from the installed solar PV system will be consumed first, and any excess will be exported to TNB on a "one-on-one" offset basis. The quota allocated under the NEM 2.0 is 500MW and will be awarded base on first-come-first-serve basis. Coupled with the extended tax incentive until year 2023- Green Investment Tax Allowance (GITA) and Green Investment Tax Exemption (GITE) including the behind-the-meter business for PV investor business models; commercial and industrial sectors can expect an alternate revenue stream when they go for NEM 2.0.

EDISHAM MOHD SUKOR is a Sr. Deputy Director of Market Operation (MO) Division, at Sustainable Energy Development Authority (SEDA) Malaysia. He is graduated from Universiti Teknologi Malaysia with a Bachelor Degree (Hons.) in Engineering (Chemical) in year 2000.

Amongst his roles in the MO Divisions are to carry out a study related to Renewable Energy (RE) technologies, in-charge of the Net Energy Metering Program, RE Industry development, any RE related projects assigned by the government, provides technical supports and advisory to the local institutions, universities and other private sectors. His division is also responsible in testing and verifications of RE projects under the FiT mechanism, in ensuring compliance to the guidelines and procedures.

Prior to joining SEDA Malaysia, En. Edisham served as an Environment Manager in Waste Management company in Selangor whereby he was part of the project team that built the very first 2 MW grid-connected landfill gas power plants in Malaysia. En. Edisham has more than 10 years of experience operating the biogas projects, his hands-on and technical knowledge is a huge advantage to SEDA Malaysia.



Day 1
27 Nov 2019
(Wednesday)

4.00pm - 4.45pm

ENCIK ISMAIL BIN HJ ABDULLAH

President & Chief Executive Officer, (IGTC)

TOPIC: SUSTAINABLE EXCELLENCE: THE WAY FORWARD FOR FUTURE BUSINESS

SYNOPSIS

Current digital disruptions through online trades, smart operations and IoT adoptions for routine jobs has affected various business operations worldwide. At the same time demand for climate actions generally understood as an additional burden to the business communities. However, climate actions either mitigations or adaptations actually can offer a new business opportunities and expansions to the entire supply chains. This approach calls sustainable excellence where outputs of environmental initiatives innovatively be used to generate economic and social positive impacts.

ISMAIL BIN HJ ABDULLAH started his career in 1986 as a contract engineer in the tele-communications field and quickly rose to managerial level. In 1992, he joined the Oil & Gas Industry and was involved in various gas, refinery and petrochemical plant constructions in Malaysia and overseas. Later, he became Nalco Chemical's Business Development Director for ASEAN sector for 6 years.

He further progressed into green industry more than 15 years ago. Notable roles he took while in the sustainability field includes;

- Green Advisor with Technology Park Malaysia for MOSTI green projects
- Lead Consultant with Malaysia Green Technology Corporation (MGTC) for green procurement program, eco-labelling, Green Technology Financial Scheme (GTFS), energy efficiency master plan, low carbon city framework etc
- Green Advisor and trainer for Melaka Green Technology Corporation
- > Green city blueprint developer
- Green master trainer by Department of Skills Department (DSD), Ministry of Human Resource (MOHR)

Currently, he leads International Green Training Centre (IGTC) as President & Chief Executive Officer, a public-private partnership company between the Melaka State Government and Green Depot Technology Sdn Bhd.

Academic Achievement

Bachelor in Quantity Surveying from Universiti Teknologi Malaysia in 1985.



Day 1

MR. SIMON WONG

General Manager, Commercial & Industrial (Central Region), (Solar Plus Sdn Bhd)

TOPIC: IS SUSTAINABILITY A MYTH? THE DIRECTION OF SOLAR ENERGY IN MALAYSIA

SYNOPSIS

Mr. Simon is an expert in solar energy that he has given many educational workshops in many universities.

He will be speaking on the direction or the adaptability among Malaysians about solar energy. Among his points are:

27 Nov 2019 (Wednesday)

5.00pm - 5.30pm

- > The evolution of Solar Panel that some inventions or features are great nowadays compared to earlier models.
- How to get full efficiencies from Solar Panel
- > The value and the benefits that solar panel can provide.
- > The role of Solar Panel in achieving the sustainability, thus it doesn't stay as a myth anymore.
- > The role that people can play in preserving the 'green'

SIMON WONG is the General Manager of Commercial & Industrial (Central Region) in Plus Solar Systems Sdn Bhd, a leading solar photovoltaic (PV) solution company in Malaysia.

He is an expert in solar energy. He involves in various segments from residential, commercial & industrial, to utility scale. Amongst are 0.66MWp solar project in the Prime Minister Office, 10MWp solar carport project at KLIA and 1MWp rooftop solar at IKEA Cheras.

Simon is also a key speaker for +SOLAR Academy, a corporate social responsibility vehicle established by Plus Solar to address the gap between educational Solar PV syllabus and the current best-in-class practice in the industry. Through this platform, Simon has run educational workshops for more than 15 universities since 2016 and has shared solar technical know-how with more than 3,000 engineering students.

He graduated with a Degree in Electrical Engineering from Multimedia University in 2009 and he holds a qualification of SEDA's GCPV certified PV System Designer and an ISPQ-certified Off-Grid PV System Designer.

He will be sharing his experience demonstrating that solar energy is the key towards achieving sustainability for Malaysian from various perspectives.



Day 2

28 Nov 2019
(Thursday)

9.00am - 9.40am

PUAN NOR HASWANI BINTI KAMIS

Principal Assistant Secretary of the Eco-Innovation Forum, MESTECC TOPIC: ROADMAP TOWARDS ZERO SINGLE USE PLASTICS

SYNOPSIS

Plastic waste pollution is one of the major environment problems in Malaysia. According to a scientific study published in 2015, Malaysia is eighth worst country with mismanaged plastic waste. We have a huge plastic pollution and yet a thriving plastic industry. As of 2016, our plastic exports amounted to RM30 billion with about 2.26 million metric tonnes of resin utilised to produce plastics. This industry has also provides more than 79,000 jobs which about 1,300 plastic manufacturers all over the country. Due to the importance of this industry, plastic pollution needs to be addressed in holistic and sustainable manners, taking into consideration the public interests, sustainability of plastic industry and environment.

Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC) with the cooperation from relevant stakeholders, including the Ministry of Housing and Local Government, Ministry of Territories, Malaysian BioEconomy Development Corporation Sdn. Bhd., SIRIM Berhad, States Government, Malaysian Plastics Manufacturers Association, Malaysian Retailer Association, academia and NGO has launched Malaysia's Roadmap towards Zero Single-Use Plastics, 2018 – 2030 on 17th October 2018.

2016 – 2030 011 17th October 2016.

Currently this Roadmap is in its 1st phase, which focuses on reducing the usage of single-use plastics (singlet bags and straw). Government is also working on few other action plans to support the implementation of this Roadmap.

PUAN NOR HASWANI BINTI KAMIS is a Chief Executive Secretary of the Eco-Innovation Forum, MESTEC. She worked at Ministry more than 13 years. She is graduated from University Putra Malaysia (2003) and holds a Degree in Computer Science. Then in year 2018, she pursues a Master in Science, Technology and Innovation Policy from Universiti Teknologi Malaysia.

Previously, she was started her career on Science & Technology Information, R&D funding and Technology Management. Her current task at MESTECC now is on single-use plastics.



Day 2

28 Nov 2019
(Thursday)

9.55am - 10.35am

DATUK LIM KOK BOON

President, MPMA

TOPIC: THE IMPORTANCE OF PLASTIC SECTORS ECONOMICALLY AND WAYS TO DISPOSE WHILE PRESERVING THE GREEN

DATUK LIM KOK BOON is the President of Malaysian Plastics Manufacturers Association (MPMA). He has wide experienced in operational management (particularly in manufacturing entities), as well as corporate finance and corporate banking experience, including mergers and acquisitions, corporate restructuring, debt/equity financing, etc.

Datuk Lim also holds a position as a Chairman of Malaysian Plastics Forum (MPF) and Chairman of the ASEAN Federation of Plastic Industries (AFPI) 2018-2020.

He also is Fellow of the Chartered Institute of Management Accountants, UK and a Member of the Malaysian Institute of Accountants.



Day 2 28 Nov 2019 (Thursday)

11.20am – 12.00noon

MR. OMANTHIRAM K

Director of Gloteq Sdn. Bhd. The Environmental Expert

TOPIC: PLASTIC MANUFACTURING: THE LEGAL REQUIREMENT POINT OF CONSIDERATION

MR. OMANTHIRAM is a well-known figure in environmental engineering and consultancy in Malaysia. His experience is widely spread from water pollution, air pollution and noise pollution to name some. His experience in conducting environmental audits among plastic manufactures brings safe operation process as per DOE guidelines. He has graduated with a Degree in Chemical Engineering from University of Technology Malaysia (UTM) in 1993 and Master of Science from National University of Malaysia(UKM) in 1999 and also currently pursuing Ph.D. program with National University of Malaysia(UKM) where the research on Quality and Productivity Improvement. (Green Manufacturing Implementation in Malaysia)

He will be sharing the following items; Legal compliance, water treatment control system, air pollution control system and schedule waste compliance as per quality Act 1974.

REGISTRATION FORM

Category	A -Day 1 (RM)	B - Day 2 (RM)	C- Combo (RM)	D -Visit only
IEM members & Supporting Organisations	477.00	318.00	742.00	106.00
Non-Members	583.00	424.00	954.00	127.20

· Registration fee included 6% SST

No.	Name of Participant(s)	IEM membership no	Please indicate category	Amount (RM)
1.				
2.				
3.				
4.				
	GRAND TOTAL (RM)			

- Please send this registration form to ezzaty@iem.org.my / fatinfarah@greentrainings.org before 20th November 2019 (Friday). MO online registration will be allowed after the Closing Date.
- Registration is on first-come-first-served basis. Seat will be reserved once the registration fee is made.
- Registration fee must be submitted together with the registration form.

CANCELLATION POLICY

No cancellation will be accepted prior to the date of the event. However, replacement or suitable may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

Personal Data Protection Act

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at http://www.myiem.org.my and I agree to IEM's use and processing of my personal data as set out in the said notice.

"IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion'. For intending participants who choose to 'walk in without prior registration', IEM SHALL NOT be responsible for any direct or consequential losses".

Signature & Company Stamp
Date:

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IEM - Ms. Ezzaty

Office no: 03-7968 4005

IGTC - Ms. Fatin Farah Nabilah

Office no: 03-88005227 H/P no: 012-3707932

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Account Holder: THE INSTITUTION OF ENGINEERS,

MALAYSIA

Current Account Number: 640320010020215

Bank: Alliance Bank Malaysia Berhad

Bank Swift Code: MFBBMYKL

Bank Address: No.53 & 55, Jalan SS2/55, SS2,

47300 Petaling Jaya, Selangor

(Should payment is made, kindly email the 'bank-in-slip' to IEM for verification before the

event)

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Payment can be made by Cash Deposit / Bank Transfer / Cheque Deposit / Cheque Posted

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"GREEN SYMPOSIUM 2019 ON SUSTAINABLE EXCELLENCE VIA INNOVATIVE ENGINEERING" 27 -28th NOVEMBER 2019 AT HOTEL ARMADA, PETALING JAYA (DAY 1) AND WISMA IEM, PETALING JAYA (DAY 2)

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PAYMENT METHOD

For your convenience, we have arranged ways for you to pay your registration fees, ranging from payment by Banker's Draft, Telegraphic or Online Transfer or credit card. *Please take note that payment should, where necessary, include all bank charges.*

(a) Local cheque/Banker's cheque made payable to "THE INSTITUTION OF ENGINEERS, MALAYSIA".	
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(c) Credit Card. Please charge to my credit card number below the amount of	
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