

TECHNICAL VISIT TO SRI JELUTONG BIOGAS POWER PLANT AND SAWIRA BIOGAS POWER PLANT

(Organized by Agricultural and Food Engineering Technical Division, IEM)

BEM Approved CPD/PDP Hours: 6 Ref. No.: IEM18/HQ/212/V

Date : 21st July 2018 (Saturday)
Time : 7.00 a.m - 5.15 p.m
Venue : Ladang Sri Jelutong, PT 8080, Mukim Bebar, District of Pekan, Pahang and
 Kilang Sawit Sawira KM12, Off Jalan Muadzam Shah, Rompin Pahang
Transport: Coach will be provided. (Coach will depart at 7.00am sharp)

Commitment fees
 (Non refundable & non transferable)
IEM Member : RM 60.00
Non IEM Member: RM 90.00

SYNOPSIS

Sri Jelutong Biogas Power Plant -The 1.5MW Sri Jelutong Biogas Power Plant is a project developed under Metro Havana, a joint venture project company comprising of Cenergi and Tanah Makmur Berhad. Metro Havana is the company responsible for the design and construction of the Sri Jelutong Plant, which lies in close proximity to the Sri Jelutong Palm Oil Mill located in the state of Pahang. This plant will utilise an in-ground up-flow anaerobic sludge blanket (IUASB) reactor as a digester to produce raw biogas from POME. Similar to Cenergi's other biogas power plants, electricity generation at Sri Jelutong will be underpinned by a renewable energy power purchase agreement (REPPA) with Tenaga Nasional Bhd and qualifies as a renewable energy feed-in tariff program that is governed by the Sustainable Development Authority of Malaysia (SEDA). Sri Jelutong is expected to be completed and ready for commercial operations on the 14th of July 2017.

Sawira Biogas Power Plant - The Sawira Biogas Power Plants were developed by Biopower Climate Care Holdings Sdn Bhd (BPCCH), a joint venture project company comprising of Cenergi and Green Lagoon Technology Sdn Bhd (GLT), a biogas technology provider. The project is located in the state of Pahang in close proximity to the Kilang Sawira Makmur Palm Oil Mill respectively. Sawira each have a capacity of 1MW and commenced operations in October 2015 generating roughly 585m3 of raw biogas from POME per hour. Similar to Havys, the plant utilize in-ground anaerobic digesters to produce untreated biogas, which is then channeled to a single 1,063 kWe Jenbacher engine. The project also hold a renewable energy power purchase agreement (REPPA) with Tenaga Nasional Bhd and qualify as renewable energy feed-in tariff programs that are governed by the Sustainable Development Authority of Malaysia (SEDA).

ITINERARY OF THE VISIT

TIME	ITINERARY
6.45 am – 7.00 am	Registration at IEM Bangunan Ingenieur
7.00 am – 10.00 am	Depart from Bangunan Ingenieur / Arrival at Seri Jelutong Biogas Plant (1.5 MW)
10.00 am – 10.15 am	Welcome address by Sri Jelutong Plant Head
10.15 am – 10.45 am	Introduction of the Biogas Plant
10.45 am – 11.45 am	Biogas plant design, operation and maintenance
11.45 am – 12.30noon	Biogas plant tour
12.30noon – 1.00 pm	Q&A Session / Lunch
1.00 pm – 2.00 pm	Continue journey Sawira Biogas Plant (1.0 MW)
2.00 pm – 2.30 pm	Registration at Sawira Biogas Plant
2.30 pm – 2.45 pm	Welcome address by Sawira Plant Head
2.45 pm – 3.00 pm	Introduction to the company profile
3.00 pm – 3.45 pm	Biogas plant design, operation and maintenance
3.45 pm – 4.30 pm	Biogas plant tour
4.30 pm – 5.15 pm	Q & A / Refreshments
5.15 pm	Dismiss/The End- Back to IEM HQ

- ✓ The visit is strictly limited to **30 participants** registered on a first-come, first-served basis.
- ✓ Interested participants are to register and pay online at www.myiem.org.my or register by returning the appended registration form **before 16th July 2018** together with the payment.
- ✓ Cheques are to be made payable to **The Institution of Engineers, Malaysia**.
- ✓ Please note that the commitment fee must be settled prior to the visit. Payment on the day of the visit is not acceptable.
- ✓ After this closing date, IEM reserves the right to allocate seats on first come first pay basis.
- ✓ Members are also reminded that if a place is reserved, IEM *may* cancel the reservation if payment is not received.

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.

Ir. Vasan Mariappan, Chairman Session 2017/2018, Agricultural and Food Engineering Technical Division, IEM

REPLY SLIP (Fax to : 03-7957 7678) (Email: ezzaty@iem.com.my)

Chairman, Agricultural and Food Engineering Technical Division, IEM
 The Institution of Engineers, Malaysia

Technical Visit to Sri Jelutong Biogas Power Plant and Sawira Biogas Power Plant

I wish to participate in the above visit on **21st July 2018** I enclosed herewith a cheque No for the amount of as my commitment fee for the visit.

Name of Member : Company's Name : Position : Address :	M'Ship No : NRIC : Email : Tel : Mobile : Fax :
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I will be participating in the visit at my own risk and hereby indemnify fully the IEM from all claims arising from any injury, damage or loss that may be sustained by me.

.....
 (Date)

.....
 (Signature)

*Please bring along this flyer for confirmation of attendance
 (Photostat copies are acceptable)*