



# The Institution of Engineers, Malaysia

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## Technical Visit to Biogas Plant – Serting Hilir Palm Oil Mill

(Organised by the Manufacturing Engineering Technical Division)

BEM Approved  
CPD Hours: 2.5  
Ref: No:  
IEM11/HQ/093/V

Date : 31 May 2011 (Tuesday)  
Time : 9.00 am – 1.00 pm  
Venue : Biogas Plant, Serting Hilir Palm Oil Mill, Seri Jempol N. Sembilan  
Transport : Coach will be provided. Participants are to assemble at 7.15 am, Bangunan Ingenieur, Petaling Jaya.

### SYNOPSIS

The Biogas Plant- Serting Hilir mill is located at Felda Serting Hilir Complex, near Serting Hilir, Seri Jempol, Negeri Sembilan. The travelling time is about 2½ hours non-stop from Kuala Lumpur (approx. 180km).

### Basic Biogas Plant Details:-

CDM project	Biogas (methane gas capturing & generation).
Design type	Thermophilic.
Capacity	3,600mt x 3 –Digester Tank Reactor.
	1 x Sludge Clarifier.
	1 x Gas storage tank.
Power house	1 x Gas Engine(Deutz/MWM 500Kw ).
	With flare facility.
	Future optional to GRID.

The Plant utilizes the Palm Oil Mill Effluent (POME) using anaerobic digester tanks (Reactors) to generate methane gas.

The methane gas collected is stored and consumed to generate power using a Gas Engine. The power supply to GRID in future is optional.

### ITINERARY OF THE VISIT

Time	Itinerary
7.15 am	Registration
7.30 am	Group Departure from IEM Building
10.00 am	Arrival at Bio Gas Plant Serting Hilir
10.05 am	Short Presentation on the Biogas Plant Operation
10.20 am	Question and Answer
11.00 am	Visit to the Biogas Plant
12.30 pm	Refreshment
1.00 pm	Group departure from Biogas Plant to IEM

The visit is strictly for **IEM MEMBERS ONLY** and limited to **30 participants** and registration will be on a first-come-first-serve basis subject to payment within 5 working days. Members who are interested to join the visit are requested to return the reply slip to the IEM Secretariat before **24 May 2011** together with a non-refundable commitment fee of RM **60.00** per person and 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 reserved 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. If IEM maintained the reserved seat and the intending participant failed to attend the visit on the date of the event, the fee will still have to be settled in full.

**Ir. S. Jagathisen**

**Chairman**

**Manufacturing Engineering Technical Division, IEM**

### REPLY SLIP (Fax to : 03-7957 7678)

Chairman, Manufacturing Engineering Technical Division, IEM

The Institution of Engineers, Malaysia

### Technical Visit to Biogas Plant – Serting Hilir Palm Oil Mill, N.Sembilan

I wish to participate in the above visit on 31 May 2011. 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: .....

I/C No: .....

Email: .....

Tel : .....

Mobile : .....

Fax No: .....

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)*