



THE INSTITUTION OF ENGINEERS, MALAYSIA

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, Peti Surat 223, 46720 Petaling Jaya, Selangor Darul Ehsan
Tel: 03-79684001/2 Fax: 03-79577678 E-mail: sec@iem.org.my IEM Homepage: http://www.myiem.org.my

TECHNICAL VISIT TO “AUO SUNPOWER SDN BHD, MELAKA” & TECHNICAL PRESENTATION : ILLUSTRATION ON THE SIMILARITIES & DIFFERENCE BETWEEN LEED & GREEN BUILDING INDEX

(Organised by Mechanical Engineering Technical Division IEM)

BEM Approved CPD/PDP Hours: 6 Ref No: IEM12/HQ/203/V

Date : 18 July 2012 (Wednesday)
 Time : 7.30a.m. – 5.00p.m.
 Fee : RM60.00 (IEM Member) / RM120.00 (Non IEM Member)
 Transport : Coach will be provided.

Participants are to assemble at 7.00am at Bangunan Ingenieur, Petaling Jaya. The coach will depart IEM at 7.30am sharp.

SYNOPSIS

AUO SunPower Sdn Bhd is a joint venture between SunPower Corporation, a Silicon Valley-based manufacturer of high-efficiency solar cells, solar panels and solar systems and AUO, a Taiwan-based entity. AUO SunPower designs, manufactures and delivers the most powerful solar cells in the world, providing green, renewable energy solutions in virtually every sector of the economy, worldwide. Based in Rembia, Alor Gajah, Melaka and with an investment of RM2.2 billion, AUO SunPower is expected to generate more than 1,400 megawatts annually of high-efficiency solar cells when completed in 2013. The two-building facility will be 108,000 square meters (more than 1 million square feet), which is approximately the size of seven U.S. football fields, and will house 28 solar cell production lines when fully online. In production since October of last year, AUO SunPower has already produced approximately 5 megawatts with up to 22.5 percent conversion efficiencies.

AUO SunPower has been recognized by the International Energy Agency for its superior energy-efficient design. In addition, it has applied for both gold and silver Leadership in Energy and Environmental Design (LEED) certifications for its administration building and cell fab, respectively. AUO SunPower was engineered with a variety of energy efficient features that will help increase operations efficiency and cut energy costs. These features include:

- (i) Solar PV covered parking, with the system generating up to 2.6 megawatts of power;
- (ii) Rooftop solar on all site facilities with systems generating more than 10 megawatts of power;
- (iii) Rain water retention ponds for environmental protection and water recycling;
- (iv) Improved HVAC cooling and heating systems that offer a much lower carbon footprint for a facility of this size and type;
- (v) 100 percent of the hot water heating capacity is generated by heat recovery air compressors;
- (vi) Cooling system efficiency that uses approximately 40 percent less electricity compared to typical systems in the Melaka area.

In conjunction with this visit, METD has organize a technical presentation to illustrate the similarities & difference between LEED & GBI (Green building Index) rating systems. As most of our local professionals are familiar with local GBI rating system only, a comparison of GBI to LEED can only be done by people who have handled both systems before. METD will present Ir. PS Soong & Partners for a 2.5 hours briefing in Sunpower. They are LEED CxA (Commissioning Authority) and GBI CxS (Commissioning Specialist) and have successfully completed some of the first few green buildings in Malaysia. Presently they are working on the commissioning works in KLIA2 main terminal which is aspiring for dual certification by LEED & GBI.

Biodata of Ir. PS Soong (P Eng, MIEM, MASHRAE, GBIF, GBI Commissioning Specialist)

Ir. Soong Peng Soon graduated from University of Malaya in year 1984 and has more than 28 years in the design, manufacturing, construction and testing of general M&E services especially ACMV system & its components. He is highly regarded for his wide hands-on experience from design, construction, to start-up & maintenance of many prestigious projects. He is a GBI certified Facilitator (GBIF), GBI CxS and LEED CxA. He had helped in certification process of many green buildings including the Suruhanjaya Tenaga HQ, Sarawak Energy Board HQ, Goldman Sachs KL Office, KLIA2 terminal, etc.

ITINERARY OF THE VISIT

| Time | Itinerary | Time | Itinerary |
|----------|-----------------------------------|----------|--|
| 7.00 am | Registration | 11.30 am | Factory Visit and Group Photo |
| 7.30 am | Group Departure from IEM Building | 2.00 pm | Lunch |
| 10.00 am | ETA at AUO SunPower Sdn Bhd | 2:30 pm | Technical Presentation on Comparison between LEED & GBI by Ir. PS Soong & Partners |
| 10.15 am | Refreshment | | |
| 10.30 am | Company Presentation | 5.00 pm | End of Visit & returning to IEM |
| | Q & A Session | | |

The visit is strictly for **IEM MEMBERS ONLY** and limited to **40 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 15 July 2012 together with a non-refundable commitment fee of RM60.00 (IEM Member) or RM120.00(Non IEM Member) 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. Noor Hisham Yahaya
 Chairman
 Mechanical Engineering Technical Division

REPLY SLIP

Chairman
 Mechanical Engineering Technical Division c/o The Institution of Engineers, Malaysia

VISIT TO AUO SUNPOWER SDN BHD

I wish to participate in the above visit on 18 July 2012. I enclose herewith cash / cheque No _____ for the amount of of RM60.00 (IEM Member) or RM120.00(Non IEM Member) as my commitment fee for the technical visit.

Name of Member: M'ship No..... Grade:
 Address: Tel (Off.): Mobile:
 I/C No. of participant: Email:
 Company's name: (Signature)

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.