



The Institution of Engineers, Malaysia

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TECHNICAL VISIT TO ENERGY RECYCLING PLANT, SEMENYIH

(Organised by Engineering Education Engineering Technical Division)

BEM approved CPD/PDP hours: 3.5 Ref No: IEM12/HQ/104/V

Date: 4 May 2012 (Friday)

Time: 10.00a.m. to 2.00 p.m.

Transport: Own transport. Participants are to assemble at the plant at 10.00 am.

PURPOSE OF VISIT

Recycle Energy Sdn. Bhd. (RESB) is the brainchild of a private-funded ie Core Competencies Sdn. Bhd. The award winning technology is owned by Core Competencies Sdn. Bhd. and has been developed according to the globally recognized principles of, Best Available Technology not Entailing Excessive Cost (BATNEEC); Best Practical Environmental Option (BPE) and Principle of Proximity (POP). RESB has began pioneering the use of green technology to generate energy from their Resource Recovery Centre/Waste to Energy (RRC/WtE) plant in Semenyih, Selangor 8 years ago. The RRC/WtE plant has a design capacity to process 1000 tons of MSW per day, operating 4 lines at 12 tons per hour per line and the Power Plant has a maximum production capacity of 8.9 MW per hour of green energy produced from the 700 tons of MSW they process a day from Kajang Municipality and neighbouring areas. 5.5 MW per hour of green energy produced from the power plant will be exported to TNB while the remaining 3.4 MW is used in-house to power all the plant's utilities, including the recycling and processing plant. RESB's vision and KPI is to reuse 80% of incoming waste and REDUCE and DISPOSE of only 20% of all incoming waste as inert material in the form of ASH to sanitary landfills and thus extending the lifespan of sanitary landfill by 5 times. This initiative culminated in the signing of Renewable Energy Power Purchase Agreement (REPPA) with TNB in 2004, which gives the company approval to supply 5.5 Megawatts (MW) of electricity per hour to the national grid. An engineered fuel is produced from the processed MSW for the power plant received from Kajang MSW. This fuel reduces the dependency on the traditional fossil fuels such as coal and natural gas, which are normally used in generating power in power plants. It reduces dependence on these precious and finite fossil fuels by offering a renewable and sustainable alternative. Apart from reducing dependence on fossil fuels, the technology also reduces the need to use landfills to dump the waste. This in turn, reduces the amount of methane gas being released into the environment normally generated at landfills. It also prevents the high levels of leachate found in Malaysian MSW from seeping into rivers. RRC/WtE technology has reduced dependence on landfills as the only means of waste disposal and frees up valuable municipal land for other uses. It has the potential to revolutionize the management and disposal of MSW in Malaysia and the region.

Time	Tentative Itinerary	Commitment Fee
10.00 am	Assemble at the Energy Recycling Plant, Semenyih Presentation and site visit Light refreshment	IEM member: RM30.00 Non IEM member: RM60.00
2.00 pm	Depart from plant	

- ✓ The visit is strictly limited to only **twenty (20) participants** registered on a **first come, first pay** basis.
- ✓ Interested members could
 - **register and pay online at IEM website** (<http://www.myiem.org.my>); **OR**
 - register by returning the appended registration form by **1 May 2012 (Tuesday)**.
- ✓ Cheques are to be made payable to **"The Institution of Engineers, Malaysia"**.
- ✓ **The commitment fee must be settled prior to the visit.**

Ir. N. Jayaseelan
Chairman
Engineering Education Technical Division

TECHNICAL VISIT TO ENERGY RECYCLING PLANT, SEMENYIH on 4 MAY 2012

REGISTRATION FORM (Fax: 03-7957 7678 Email: pamela@iem.org.my)

I wish to participate in the above visit on **4 May 2012 (Friday)**. I enclose herewith cash/cheque for the amount of RM..... as my commitment fee for the visit.

Name	
IEM Membership No.	
NRIC No.	
Company Name	
Email Address (please write clearly as the confirmation letter will be sent via email)	
Mobile No.	
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.

.....
Signature

.....
Date

- Please bring along this flyer for confirmation of attendance -Photocopies are acceptable -