

# IEM-ST Awareness Half-Day Seminar on MEPS for Motors

ELECTRICAL ENGINEERING TECHNICAL DIVISION

reported by



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On 15 November 2016, IEM's Electrical Engineering Technical Division (EETD) and Suruhanjaya Tenaga (Energy Commission Malaysia) jointly organised the "IEM-ST Awareness Half-Day Seminar on MEPS for Motors" in collaboration with International Copper Association (ICA). Some 100 participants from the industry and academic institutions attended the event at Best Western Hotel in Petaling Jaya.

IEM president Ir. Tan Yean Chin delivered the welcome address and then Suruhanjaya Tenaga (ST) Chief Executive Officer (CEO) Datuk Ir. Ahmad Fauzi bin Hasan, who officiated at the opening, said the aim of the seminar was to create awareness among the industry on the Minimum Energy Performance Standard (MEPS) guidelines for electric motors. Although the initial cost of high efficiency motors is high, the operating cost is lower in the long run as these motors have less energy wastage and will last longer.

The first topic, "Market Research Study on Opportunities for High Efficiency Motors (HEMs) in Malaysia Industries", was presented by Ir. Assoc. Prof. Dr Gobbi Ramasamy from Multimedia University (MMU), Malaysia. The efficiency of electric motors can be categorised into the following IE (International Efficiency) classes: IE1 (Standard Efficiency), IE2 (High Efficiency), IE3 (Premium Efficiency), and IE4 (Super Premium Efficiency).

Some of the conclusions from Dr Gobbi's HEMs market study in Malaysia are as below:

- The majority of local industries use IE1 electric motors.
- The top 5 industries that dominate use of electric motors are paper, cement, food & beverage, petrochemical and steel.
- Most companies opt for motor rewinding (even though there will be a drop in motor efficiency) as this is cheaper than buying a new HEM.
- There are no MEPS in place and this, coupled with the lack of enforcement, has contributed to the lack of interest in the purchase of HEMs.

Ir. Abdul Rahim bin Ibrahim of ST (Energy Commission) made the presentation on "Guideline on Minimum



From left to right: Ir. Yau Chau Fong (EETD Chairman), Datuk Ir. Ahmad Fauzi bin Hasan (ST CEO), Ir. Tan Yean Chin (IEM President) and Mr. K.C. Wong (ICA Representative)



Speakers for the seminar. From left to right: Ir. Abdul Rahim bin Ibrahim (ST), Pn. Zuaida Abdullah (MIDA), Ir. Yau Chau Fong (EETD Chairman), Assoc. Prof. Ir. Dr Gobbi Ramasamy (MMU) and Mr. K.C. Wong (ICA Representative)

Energy Performance Standard (MEPS) for Electric Motors". According to the guideline, the MEPS requirement shall be IE2 and motors with efficiency below the MEPS value should not be used. For motor capacity which is not covered under Table 1, 2 and 3 as defined in MS 2578-3, the MEPS value of the motor shall refer to the next higher kW capacity.

Puan Zuaida Abdullah from Malaysian Investment Development Authority (MIDA) presented the topic, "Government Facilities and Incentives in Green Technology Sector". There are 2 tax incentives for green activities

under the Green Technology Incentive, Income Tax Act, 1967: Investment Tax Allowance (ITA) and Income Tax Exemption (ITE).

Companies which undertake investments in specific projects that promote sustainability and green environment, are entitled for ITA, e.g. investment in energy efficient equipment such as HEMs. Companies that provide green services which support investments in green projects are entitled for ITE. There are also incentives given for the promotion of activities such as waste recycling and the use of promoted green products in building materials, electrical & electronics, biomass and machinery & machinery equipment. ■

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