



### Half-Day Seminar on MEPS- Part 1

by Dr Siow Chun Lim

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On 8<sup>th</sup> November 2018, the IEM Electrical Engineering Technical Division organised a Half Day Seminar on MEPS at Hotel Grand Paragon, Johor Bahru jointly with Suruhanjaya Tenaga and IEM Southern Branch. It was attended by 30 participants.

The first speaker was Puan Hafiza from Suruhanjaya Tenaga. In her presentation, she gave an overview of MEPS guidelines for high efficiency motors (HEM). She started off by sharing on the energy efficiency legal framework whereby the implementation and enforcement of Minimum Energy Performance Standards (MEPS) for air conditioners, refrigerators, televisions, domestic fans and light fittings are already gazetted in the Electricity Regulations 1994 (Amendment 2013). She then proceeded to dwell on the topic of MEPS. MEPS was part of the amendment of Electricity Regulations on 3<sup>rd</sup> May 2013. One year later, it was officially enforced with energy rating label being affixed to the aforementioned domestic electrical appliances apart from the safety label. Note that the Malaysian Standards for MEPS for the 5 appliances are also published online. For LED lighting, the packaging needs to show the number of tested hours on top of the efficacy value which every other types need to have. A minimum energy rating of 2 stars out of 5 is required for the aforementioned appliances to be allowed to be sold in Malaysia.

Puan Hafiza then talked on MEPS development for industrial equipment and guidelines for HEM. There are 3 main phases namely electric motors, cooling towers and air-conditioning (package unit). Initial market study for electric motors has concluded and the guidelines on the MEPS for them approved. In fact, Malaysian standards for MEPS for electric motors has also passed public comment stage. Development of MEPS for cooling towers is still in planning stage whereas MEPS for air-conditioners has been developed through MS 1525 and implemented on a voluntary basis. MEPS for electric motors is planned to be implemented in 2020. Awareness campaigns will be carried out to inform the industries about the benefits of energy efficient motors (IE2 and IE3) and the phasing out of IE1 motors which are of low efficiency. Puan Hafiza concluded her talk by providing an overview of National Energy Efficiency Action Plan (NEEAP) consisting of four strategic thrusts, namely implementation of energy efficiency plan, strengthening of institutional framework, establishment of sustainable funding mechanisms to implement energy efficiency initiatives, and promotion of private sector investment. The key initiatives encompass equipment programme initiative via promotion of 5-star rated appliances and MEPS, industrial programme initiative via energy audit and energy management and promotion of co-generation and building programme initiative via energy audit and energy management as well as energy efficient building design.

The seminar then paused for a tea break. Photos below summarised the events in the first half of the day.



Ir. Wong Yee Fong of IEM Southern Branch welcoming the participants



Puan Hafiza presenting