

New Malaysian Standard MS2578-1:2014

on Code of Practice on Energy Efficiency & Conservation for Industrial Electrical Equipment - Part 1 : Fans

By **CHARLOTTE LING**

Assistant Manager/PA, MD's Department

Cofreth continues to contribute to the country on environmental sustainability through CSR from its staff.

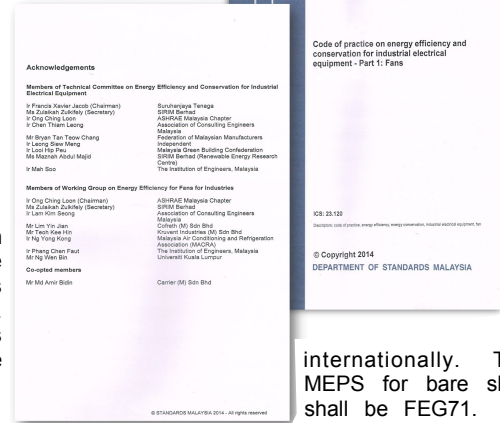
Ir. Ong Ching Loon, our MD contributed his time and knowledge as the Working Group (WG) Chairman to draft this new Malaysian Standard with 8 other WG members from professional bodies such as IEM, ACEM, University Kuala Lumpur, trade association MACRA, fan manufacturers Kruvent Industries, industrial players Carrier and Cofreth. SIRIM provided secretarial services. Ir. Ong represented ASHRAE Malaysia Chapter, while our Energy Manager, Mr. Pablo Lim Yin Jian represented Cofreth.

This new Malaysian Standard was approved by the Minister and published in February 2015. This Malaysian Standard establishes a classification of fan efficiency for all types of fans driven by motors with an electrical input power range from 0.125

kW to 500 kW. This Malaysian Standard is applicable to bare shaft and driven fans, as well as fans integrated into products. Fans integrated into products are measured as stand-alone fans. Certain exclusions apply.

The variation of fan type and drive option leads to efficiency being derived in different ways. For grading purposes, the efficiency has been defined as a function of the size for bare shaft fans and as a function of input power for driven fans. Direct comparison shall not be made between "Fan Motor Efficiency Grade (FMEG)", a driven fans rating and "Fan Efficiency Grade (FEG)", a bare shaft fans rating.

This Standard introduces for the first time in Malaysia, a Minimum Energy Performance Standard (MEPS) for fans in the format that being adopted



internationally. The MEPS for bare shaft shall be FEG71. All bare shaft fans are to be certified by independent third party (AMCA or Eurovent or equivalent) and to bear the FEG certified performance seals.

The MEPS for driven fans shall be the grades indicated in the FMEG Table 7 of the Standard.

The MEPS shall be revised to be more energy efficient when need arises and to be in tandem with the regulatory requirements. 🌱