



MALAYSIAN STANDARD

MS 1525: 2019

Energy efficiency and use of renewable energy for non-residential buildings - Code of practice (Third revision)

ICS: 91.040.01

Descriptors: energy efficiency, renewable energy, non-residential, buildings, code of practice

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DEPARTMENT OF STANDARDS MALAYSIA

Introduction

The purposes of this Malaysian Standard are to:

- a) encourage the design, construction, operation and maintenance of new and existing buildings in a manner that reduces the use of energy without constraining creativity in design, building function and the comfort or productivity of the occupants; and appropriately dealing with cost considerations;
- b) provide the criteria and minimum standards for energy efficiency in the design of new buildings, retrofit of existing buildings and methods for determining compliance with these criteria and minimum standards;
- c) provide guidance for energy efficiency designs that demonstrate good professional judgment to comply with minimum standards; and
- d) encourage the application of renewable energy in new and existing buildings to minimise reliance on non-renewable energy sources, pollution and energy consumption whilst maintaining comfort, health and safety of the occupants.

As the standard sets out only the minimum requirements, designers are encouraged to design and select equipment above those stipulated in this standard.

The recommendations for good practice in renewable energy applications are classified under the following areas:

- a) maximising passive solar design;
- b) optimising passive cooling strategies;
- c) optimising environmental cooling through natural means such as vegetation, site planning, landscaping and shading; and
- d) maximising the capture of renewable energy resources for solar heating, solar electricity, solar lighting and other solar assisted technologies.

The requirements for energy efficiency are classified under the following areas:

- a) designing an efficient lighting system (Clause 6);
- b) minimising losses in electrical power distribution equipment (Clause 7);
- c) designing an efficient air-conditioning and mechanical ventilation system (Clause 8); and
- d) designing a good energy management system (Clause 9).