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ENERGY MANAGEMENT STANDARDS

Improving Energy Performance & Efficiency through Standards

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ENERGY MANAGEMENT STANDARDS

Improving energy efficiency has never been so high in the business agenda. Rising fuel prices means that reducing energy use makes economic sense, while increasingly compelling research on climate change tells us that it makes social and environmental sense, too.

Today, effective energy management is critical to the success of any business. For many, the answer is to put in place an Energy Management System (EnMS) – a framework for the systematic management of energy. Besides reducing greenhouse gas emissions, an EnMS enhances energy efficiency and cuts costs, thereby providing companies with a competitive advantage.

Energy standards help organisations of all sizes implement the processes necessary to understand their baseline energy usage, put in place action plans, targets and energy performance indicators for the reduction of energy consumption. They also help organisations to identify, prioritize, and record opportunities for improve energy performance in order to achieve cost savings.

SINGAPORE STANDARDS

1. **SS ISO 50001:2011** — **$28.35**
   Specification for energy management systems - Requirements with guidance for use
   Specifies requirements for an organisation to establish, implement, maintain and improve an energy management system, which enables an organisation to take a systematic approach towards achieving continual improvement in energy performance, including energy efficiency, energy use and consumption. Also specifies requirements applicable to energy use and consumption, including measurement, documentation and reporting, design and procurement practices for equipment, systems, processes, and personnel that contribute to energy performance.

2. **SS 571:2011** — **$22.05**
   Code of practice for energy lockout and tagout
   Establishes the minimum safety requirements for the control of energy sources which could cause injury to personnel. Applies to activities such as, but not limited to, erecting, installing, constructing, repairing, adjusting, inspecting, modifying, unjamming, setting up, troubleshooting, testing, cleaning, dismantling, servicing, and maintaining machines, equipment or processes.

3. **SS 530:2006** — **$21.00**
   Code of practice for energy efficiency standard for building services and equipment
   Provides minimum energy efficiency requirements for new installations, replacement of systems and equipment in buildings, and replacement of components of systems and equipment in buildings. Also covers the criteria for determining compliance with these requirements. Applies to air-conditioning and heat rejection equipment, water heaters, motor drives and high-efficiency lighting used in buildings.

4. **SS 564:2010** — **$49.35**
   Green data centres – Energy and environmental management systems
   Specifies requirements for the management of energy use (and other significant environmental aspects) of a data centre. Specifies requirements for an organisation to establish and maintain an energy and environmental management system, which enables the organisation to take a systematic approach towards achieving continual improvement in energy performance of its data centre. Focuses on energy efficiency practices applicable to the data centre industry. Elaborates on the best practices in the designing of a green data centre, as well as the management of its electrical systems, mechanical systems and ICT equipment. Also specifies relevant metrics necessary for measuring the achievement of a green data centre.

INTERNATIONAL / OVERSEAS STANDARDS

5. **ISO 13153:2012** — **$193.20**
   Framework of the design process for energy-saving single-family residential and small commercial buildings

6. **ISO 13790:2008** — **$328.44**
   Energy performance of buildings -- Calculation of energy use for space heating and cooling

7. **ISO 15112:2011** — **$237.36**
   Natural gas -- Energy determination

8. **ISO 16818:2008** — **$176.64**
   Building environment design -- Energy efficiency – Terminology

9. **ISO 23045:2008** — **$135.24**
   Building environment design -- Guidelines to assess energy efficiency of new buildings

**Prices are subject to change and exclude GST.*