

Energy Management System (EnMS) White Paper

ISO 50001 / BS EN 16001:2009



WHAT IS ISO 50001 / BS EN 16001:2009 STANDARD?

Standard for Energy Management (ISO 50001 / BS EN 16001:2009) provides the most robust framework for optimizing energy efficiency in organizations. The standard provides a comprehensive set of controls designed to help organizations establish the systems and processes necessary to improve energy efficiency. ISO 50001 / BS EN 16001 provide a structure for continuous improvement of an organization's energy efficiency and sustainable use.

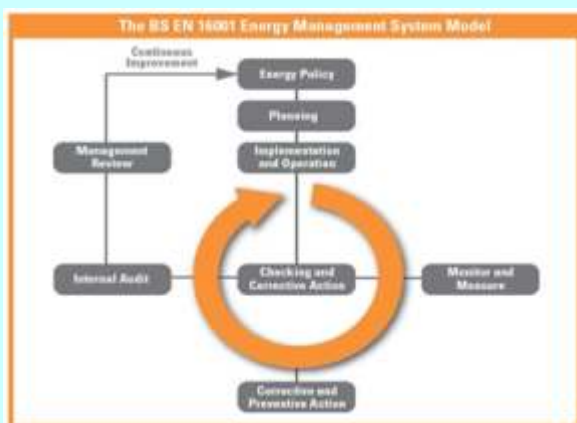
It is a framework for the systematic management of energy as well as enhancing energy efficiency. An EnMS can cut costs and reduce carbon emissions providing a competitive advantage. ISO 50001 / BS EN 16001 represents the latest best practice in energy management, specifying the requirements for an EnMS to enable the organization develop and implement a policy, identify significant areas of energy consumption and target energy reductions. The aim of the standard is to put practices in place that are effective, and result in measurable energy savings. In practice, an effective energy management system should result in organizations taking action to improve energy efficiency, continual improvement year-by-year and an improved performance in energy usage, thorough analysis of areas with potential for energy saving being carried out.

Energy management is one of the most effective measures that business can take to reduce operational costs, improve its competitiveness and demonstrate to industry that it is operating in a sustainable way. A key way to achieve this is through implementation of an energy management system framework based on standardized best practice such as ISO 50001 / BS EN 16001.

It is intended to apply to all types and sizes of organizations and can be used independently of, or integrated with, any other management system.



Providing ISO 50001 - BS / EN 16001 consulting, Training and Certification facilitation services across the world.



ISO 50001 / BS 16001 APPLIES TO ANY ORGANIZATION THAT WISHES TO:

- Improve energy performance in a systematic way
- Establish, implement, maintain and improve an energy management system
- Ensure that it conforms with its stated energy policy
- Demonstrate such conformance to others
- Seek certification of its energy management system by an external organization
- Make a self-evaluation and self-declaration of conformance with the standard.

KEY ELEMENTS FOR IMPLEMENTING ISO 50001/BS 16001:2009 ENMS:

- Energy policy statement
- Identification of significant energy aspects
- Establishment of energy objectives & targets
- Implementation plan to meet energy objectives & targets
- Identifying competence and training requirements
- EnMS Documentation
- EnMS Internal audit
- Management review

BENEFITS OF ISO 50001 / BS 16001

- Save money and reduce costs through energy efficiencies
- Comply with legislation and meet stakeholder expectations
- Support sustainable development policies
- Enhance the reputation of your business and win more customers
- Enhanced marketing capabilities. Make your business stand out.
- Continual improvements on energy performance.
- System Compatibility- can be integrated with existing management system



SUMMARY OF ISO 50001 / BS EN 16001:2009 ENMS:

Effective energy management is crucial for the success of any business. For many, the answer is an Energy Management System (EnMS) – an ISO 50001 / BS EN 16001:2009 framework for the systematic management of energy.

ISO 50001 / BS EN 16001 is based on a methodology known as plan-do-check-act. The requirements necessary to implement the standard include:

Plan: Identify energy aspects and legal obligations; establish energy objectives and targets.

Do: Assign resources and responsibilities; raise organizational awareness and provide training; communicate internally and externally; establish documentation; implement operational controls.

Check: Establish the monitoring of energy management programs; evaluate compliance with legal obligations; identify and manage non-conformance; control records; carry out internal audits of the energy management system.

Act: Review of energy management systems by management resulting in potential changes.

The management system format of plan-do-check-act is designed to ensure that ISO 50001 / BS EN 16001 can be used by any organization. The requirements of the standard can also be aligned with those of other management systems such as quality and environment.



Sterling International Consulting:- 202, Gym Building, Khalid Bin Waleed Street, Bur Dubai, PO BOX 27363, Dubai, UAE

Phone: +971 4455 8677, Mobile: +971 5058 42597 | Fax: +971 4455 8556 Web: www.uaeiso.com | Email: info@uaeiso.com

• U.S.A • UK • SINGAPORE • INDIA • UAE • KSA • EUROPE • AFRICA • AUSTRALIA • HONG KONG

ISO 50001 / BS EN 16001 will help your business establish the systems and processes necessary to improve energy efficiency. This will help to save money and reduce greenhouse gas emissions through systematic activities related to the technical stages and the processes of the ISO 50001 / BS EN 16001 system include:

- Data collection – of energy use and the factors that drive it.
- Understanding of the energy requirements for significant energy users.
- Setting objectives and targets, the use of energy performance indicators (EPIs)
- Register of energy saving opportunities – established and prioritized
- Monitoring and measuring energy usage - to review and modify the system.
- Management review - for assessing overall performance and recommendations

The management system provided for EN 16001:2009 and associated guidance should be considered as a support tool to assist implementation of energy management and cost reducing programmes. This technical guideline outlines methods of how to establish, operate and maintain these programmes. Organizations may then consider applying for certification to ISO 50001 / BS EN 16001:2009.



WHAT DOES STERLING INTERNATIONAL CONSULTING OFFERS FOR ISO 50001 / BS EN 16001:2009 CERTIFICATION

We the "Sterling International Consulting" are a team of highly skilled and qualified consultants and trainers having vast industrial experience. We partner organizations across the world to implement and achieve ISO 50001 / BS EN 16001:2009 certification. Our consulting approach is highly professional, time bound and effective resulting in ease of implementation and adds value to the business processes of the client organization. We provide ISO 50001 / BS EN 16001 EnMS training, consulting, implementation and certification services in India, USA, UK, Saudi Arabia, UAE, Europe and African countries.

Sterling offers comprehensive services that will help you to achieve ISO 50001 / BS EN 16001:2009 certification. We provide assistance to

- Thoroughly review organization's existing energy management practices and programme (gap analysis).
- Identify applicable legal requirements.
- Establish energy policy and objectives.
- Develop energy management system programme.
- Identify EnMS documentation requirements.
- Train personnel.
- Implement new programs such as internal audit and management review.
- Help you seek certification for ISO 50001 / BS EN 16001:2009.

In addition to consulting (online & onsite), we provide following training:

- ISO 50001 / BS EN 16001 overview training
- ISO 50001 / BS EN 16001 for the SME
- Developing ISO 50001 / BS EN 16001 documentation
- ISO 50001 / BS EN 16001 internal auditor training



With a team of highly qualified consultants and trainers having vast industrial experience, we partner organizations across the world to implement and achieve ISO 50001 / BS EN 16001 certification.

Our consulting approach is highly professional, time bound and effective resulting in ease of implementation and adds value to the business processes of the client organization.

Contact us at info@uaeiso.com to get your organization ISO 50001 / BS EN 16001 certified.

Sterling International Consulting:- 202, Gym Building, Khalid Bin Waleed Street, Bur Dubai, PO BOX 27363, Dubai, UAE

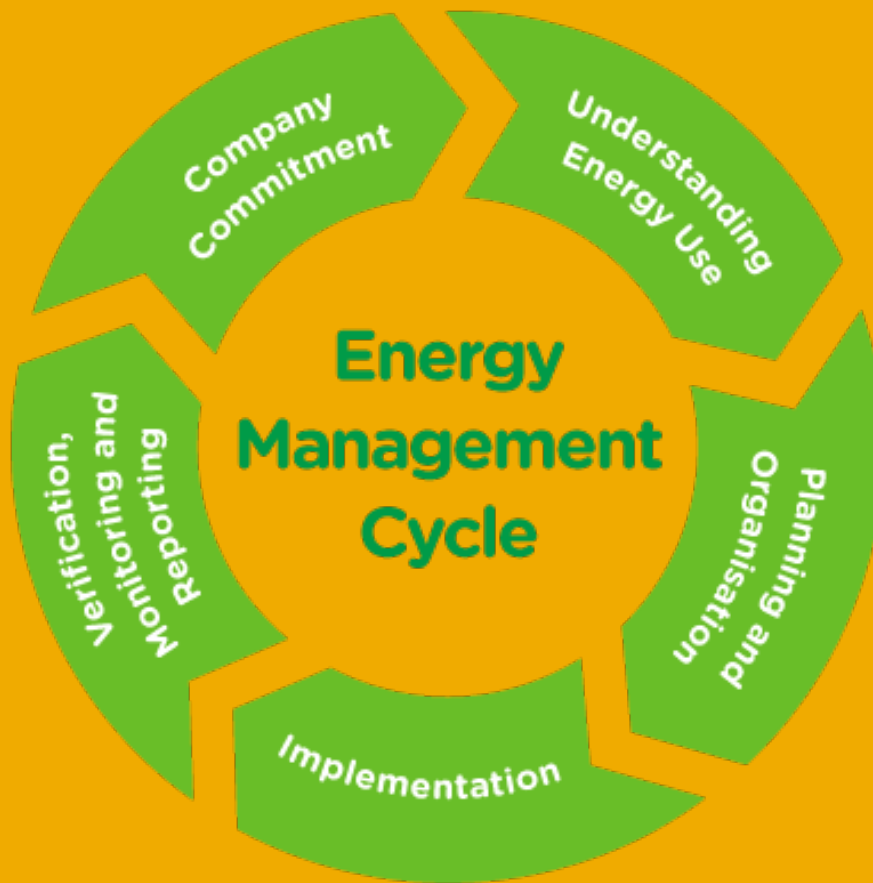
Phone: +971 4455 8677, Mobile: +971 5058 42597 | Fax: +971 4455 8556 Web: www.uaeiso.com | Email: info@uaeiso.com

• U.S.A • UK • SINGAPORE • INDIA • UAE • KSA • EUROPE • AFRICA • AUSTRALIA • HONG KONG



24 Hours
customer Care:
+971 5058 42597

**Energy Management System
(EnMS) White Paper**



229, Sai Chambers, Sector 11, CBD Belapur,
Navi Mumbai 400614, India – R00-230910
Phone +971 4455 8677

Web: www.uaeiso.com • Email: info@uaeiso.com