Energy Management System

ISO 50001

Benefits of ISO 50001 Energy Management System

Energy costs and –therefore – dependency to external energy sources are reduced depending on the establishment of an Energy Management Standard and the reduction of energy consumption as well as contributing to the protection of the environment as a result of reducing to greenhouse gas emissions.

Also, the "Regulation on Increasing Efficiency of Energy Resources and Energy Utilization" issued on 25.10.2008 requires to comply with the requirements of ISO 50001 Energy Management Standard at facilities which are liable for employing Energy Manager.

It is obligatory to establish the ISO 50001 Energy Management Standard in the facilities where it is intended to benefit from the Incentive Grants of Voluntary Agreements and Incentive Grants of The Efficiency Increasing Project (EIP) of the General Directorate of Renewable Energy.

The purpose of ISO 50001 Energy Management System standard is to create the processes and systems needed to be developed in order to improve the energy performance – which includes energy efficiency and intensity – of organizations. ISO 50001 Energy Management System standard will allow the reduction of costs, greenhouse gas emissions and other environmental impacts through systematic management of energy. ISO 50001 Energy Management System standard can be implemented to any kind and size organizations regardless their geographical, cultural or social conditions. The success of implementation depends on the participation from all levels of the organization and especially depends on the participation of senior management. ISO 50001 Energy Management System standard shows the requirements for establishing an energy management system (enms) which will be established to create and to implement an energy policy; to determine the targets and objectives and to prepare and to develop action plans taking into consideration the information on the important level of energy consumption and legal requirements.

ISO 50001 energy management system enables organization to achieve the organization's policy statements; to take the necessary steps to improve the energy performance and to prove the suitability of system established for the fulfillment of these international standard requirements. The implementation of ISO 50001 Energy Management System Standard can be adapted to the organizational necessities which include to the complexity of system, documentation structure, resources and the activities performed by the organization.

ISO 50001 Energy Management System Standard is based on continuous improvement framework which includes "Plan-Implement-Check-Take Actions" principle and includes the energy management to the organization's daily practice. The worldwide implementation of this standard will ensure higher availability of energy resources; it will strengthen the competitiveness and it will have a positive impact on climate change. ISO 50001 energy management system standard can be used for certification/registration and/or self-declaration of the organization's energy management system. ISO 50001 Energy Management System standard does establish any requirement beyond the commitments of the organization's energy policy and the relevant legal compliance. The organization may choose to integrate ISO 50001 Standard with other management systems, such as quality, environment, occupational health and safety or social responsibility.

How ISO 50001 Energy Management System Works and How it is maintained?

It is aimed to have a systematic development which improves energy performance.
An energy management system is developed and it is maintained through providing to continuity.
It is ensured that; it is compatible with the energy policy. Compliance with environment is provided in the works and implementations.

Certification of the established management system by an outsourcing institution is an important beginning for continuous protection of the energy management system.

Do the most important start of your activities by declaring your own Declaration of Conformity after determining your own assessment method with the standard and start to protect your future.

AT ENERGY EFFICIENCY;

As BVA Certification, we aim to reduce the energy consumption per product or per service without reducing the quality and quantity of production in industrial facilities and the standards of life and the quality of services in buildings.

b&a

BVA Belgelendirme ve Dış Ticaret Ltd. Şti.

ISO 50001 Energy Management System

WHAT ARE THE DIFFERENCES BETWEEN ISO 50001 and BS 16001 ENERGY MANAGEMENT SYSTEM STANDARDS?

The time required to establish and to implement an ISO 50001 Energy Management System may vary depending on the process type, the energy source type to be used as well as varying depending on whether the organization has any management system (eg ISO 9001: 2008). Generally, Establishing an ISO 50001 Energy Management System and putting it into practice takes at least 5-6 months. The system establishment requires to determine an "energy management" and to determine the team which will establish the system. It will take 15% of the time required for establishing to the energy management system. The predictions about the time after the establishment of system may change depending on the strategies determined by the organization and the projects that they want to implement.

Before its publication, ISO 50001 was known as BS EN 16001. Although both ISO 50001 and BS 16001 Energy Management System standards have similarities in terms of scope; ISO 50001 defines the last and best practices for the energy management. It refers to the issues of supply and design applications for energy supply, measurement, documentation, energy use report, energy-using equipment, systems and processes with a broader perspective. ISO 50001 Energy Management System is a standard that emphasizes more to R&D and investment activities.

ISO 50001 and BS 16001 Energy Management System shows basic similar in both standards. Both standards aim to reduce costs and greenhouse gas emissions. Despite these similarities, ISO 50001 provides a broader perspective. It aims to review energy use based on basic consumption. For example, energy reference value and energy performance indicators are the novelties brought with ISO 50001.

ISO 50001 gives more responsibility to management; the senior management must declare its commitment to the Energy Management System and it must demonstrate that its support continually increases.

In BS 16001, it is generally referred to the energy policy while ISO 50001 refers to these issues in more detail; it even refers to the purchase of energy efficient products and services. While it is indicated in BS 16001 that; the institution determines and documents to energy items and put them in order according to their importance; ISO 5001 indicates to determine energy profiles and to determine a reference according to this profile and to assess the energy performance indicators accordingly.
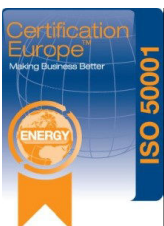
The issues like documentation, control of documentation, review of documents by the senior management, communication etc. are parallel to each other in both standards. Another novelty introduced in ISO 50001 is design. Organization should take into consideration to design, to modify and to renew to major energy consuming facilities, equipment, systems and processes.

Another novelty is the purchase of energy services, goods and energy. Organization should consider and give priority to required acquisitions in order to increase productivity in major energy consuming facilities, equipment, systems and processes. In addition, organization should take into consideration energy purchases which gives importance to energy quality, capacity, cost and environmental impact.

WHY ISO 50001?

The following achievements are obtained as a result of the development of Energy Management System:
- Making official to the energy policy
- Reduction in energy costs as a result of managing to energy consumption with systematic approach.
- Environmental protection:
- Efficient use of resources
- Reduction of greenhouse gas emissions
- Providing compliance with the legislation
- Easy integration with other management systems, especially with Environmental Management System

As BvA Belgelendirme ve Dış Tic. Ltd. Şti. we provide certification of ISO 50001 Energy Management System over Certification Europe with INAB accredition.