Energy management systems — Requirements with guidance for use

Energiemanagementsysteme — Anforderungen mit Anleitung zur Anwendung

Systèmes de management de l’énergie — Exigences et recommandations de mise en œuvre
Energy management systems - Requirements with guidance for use

Systèmes de management de l'énergie - Exigences et recommandations de mise en œuvre

Energiemanagementsysteme - Anforderungen mit Anleitung zur Anwendung

This European Standard was approved by CEN on 6 June 2009.

CEN and CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN or CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN and/or CENELEC member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN and CENELEC members are the national standards bodies and national electrotechnical committees, respectively, of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.
Foreword

This document (EN 16001:2009) has been prepared by CEN/CLC BT/TF 189 “Energy Management and related services – General requirements and qualification procedures”, the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2010, and conflicting national standards shall be withdrawn at the latest by January 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.
Introduction

The overall aim of this European standard is to help organizations establish the systems and processes necessary to improve energy efficiency. This should lead to reductions in cost and greenhouse gas emissions through systematic management of energy. This standard specifies requirements for an energy management system to enable an organization to develop and implement a policy and objectives which take into account legal requirements and information about significant energy aspects. It is intended to apply to all types and sizes of organizations irrespective of any geographical, cultural and social conditions. This standard applies to the activities under the control of an organization.

This standard for energy management systems can be used independently or integrated with any other management system. To facilitate its use, the structure of this standard is similar to the structure of ISO 14001.

The basis of the approach is shown in Figure 1. The success of the system depends on commitment from all levels and functions of the organization, and especially from top management. A system of this kind enables an organization to develop an energy policy, establish objectives and processes to achieve the policy commitments, take action as needed to improve its performance and demonstrate the conformity of the system to the requirements of this European standard.

There is an important distinction between this European standard, which describes the requirements for an organization’s energy management system and can be used for certification/registration and/or self-declaration of an organization’s energy management system, and a non-certifiable guideline intended to provide generic assistance to an organization for establishing, implementing or improving an energy management system. Energy management encompasses a full range of issues, including those with strategic and competitive implications. Demonstration of successful implementation of this European standard can be used by an organization to assure interested parties that an appropriate energy management system is in place.

NOTE This European standard is based on the methodology known as Plan-Do-Check-Act (PDCA). PDCA can be briefly described as follows:

- Plan: establish the objectives and processes necessary to deliver results in accordance with the organization’s energy policy.
- Do: implement the processes.
- Check: monitor and measure processes against energy policy, objectives, targets, legal obligations and other requirements to which the organization subscribes, and report the results.
- Act: take actions to continually improve performance of the energy management system.

This European standard contains only those requirements that can be objectively audited.

This European standard does not establish absolute requirements for energy performance beyond the commitments in the energy policy of the organization and its obligation to comply with relevant legislation. Thus, two organizations carrying out similar operations but having different energy performance can both conform to its requirements.

Adoption of EN 16001:2009 will contribute to the setting up of a continuous improvement process that will lead to more efficient energy use. It will encourage organizations to implement an energy monitoring plan as well as energy analysis.
The requirements of this European standard can be aligned or integrated with those of other management systems, such as those for quality, environment, occupational health and safety, financial or risk management. It is therefore possible for an organization to adapt its existing management system(s) in order to establish an energy management system that conforms to the requirements of this European standard.

See website [www.cen.eu](http://www.cen.eu) for cross-references to other management systems standards.

The level of detail and complexity of the energy management system, the extent of documentation and the resources devoted to it depend on a number of factors, such as the size of an organization, the scope of the system, and the nature of its activities and products (including services). This may be the case in particular for small- and medium-sized enterprises.

For ease of use, the clause numbers in the body of this European standard and in Annex A have been related. For example, 3.3.3 and A.3.3 both deal with energy objectives, targets and programme(s), and 3.5.5 and A.5.5 both deal with internal audit of the energy management system.