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Energy audits - Part 1: General requirements

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This European Standard was approved by CEN on 3 July 2022.

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European foreword

This document (EN 16247-1:2022) has been prepared by the Joint Technical Committee CENCENELEC/JTC 14 "Energy management and energy efficiency in the framework of energy transition", 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of an identical text or by endorsement, at the latest by February 2023, and conflicting national standards shall be withdrawn at the latest by February 2023.

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

This document supersedes EN 16247-1:2012.

Significant changes compared to the previous edition are:

- a) Terms and definition updated to be compliant with ISO 50001;
- b) New Annex A Energy Audit Process Flow Diagram added;
- c) New Annex B Examples of energy Audit level added;
- d) New Annex C Sampling (Based on ISO 19011:2018 Guidelines for auditing management systems) added.

This Part covers the general requirements common to all energy audits. There are four further parts of the EN 16247 series, which provide additional material to Part 1 for four specific sectors.

The other parts of EN 16247 "Energy audits" are:

- Part 2: Buildings;
- Part 3: Processes;
- Part 4: Transport;
- Part 5: Competence of energy auditors.

This document has been prepared under a mandate given to CEN and CENELEC by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN and CENELEC websites.

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

EN 16247-1:2022 (E)

Introduction

An energy audit is an important step for an organization, whatever its size or type, wanting to improve its energy performance, reduce energy consumption and bring related environmental and other benefits.

This document defines the attributes of a high-quality energy audit. It states the requirements for energy audits and corresponding obligations within the energy auditing process. It recognizes that there are differences in approach to energy auditing in terms of scope, aims and thoroughness, but seeks to harmonize common aspects of energy auditing in order to bring more clarity and transparency to the market for energy auditing services. The energy audit process is presented as a simple chronological sequence; this does not preclude however repeated iterations of certain steps.

This document applies to commercial, industrial, residential and public-sector organizations. This document does not deal with the energy audit programme/scheme properties (such as programme administration, training of energy auditors, quality control issues, energy auditors' tools, etc.).

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1 Scope

This document specifies the requirements, common methodology and deliverables for energy audits. It is applicable to all forms of establishments and organizations, all forms of energy and energy uses.

This document covers the general requirements common to all energy audits. Specific energy audit requirements complete the general requirements in separate parts dedicated to energy audits for buildings, industrial processes and transport.

2 Normative references

There are no normative references in this document.

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