

საქართველოს სტანდარტი

სსკ: 03.120.10; 27.015

ენერგოაუდიტი - ნაწილი 1: ზოგადი მოთხოვნები

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

სსტ ენ 16247-1:2022/2023

საინფორმაციო მონაცემები

1 მიღებულია და დაშვებულია სამოქმედოდ: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს გენერალური დირექტორის 01/06/2023 წლის № 52 განკარგულებით

2 მიღებულია „თავფურცლის“ თარგმნის მეთოდით: სტანდარტიზაციის ევროპული კომიტეტის (ენ) სტანდარტი ენ 16247-1:2022 „ ენერგოაუდიტი - ნაწილი 1: ზოგადი მოთხოვნები”

3 პირველად

4 რეგისტრირებულია: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 01/06/2023 წლის №268-1.3-028998

წინამდებარე სტანდარტის ნებისმიერი ფორმით გავრცელება სააგენტოს ნებართვის გარეშე აკრძალულია

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

EUROPEAN STANDARD

EN 16247-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2022

ICS 03.120.10; 27.015

Supersedes EN 16247-1:2012

English version

Energy audits - Part 1: General requirements

Audits énergétiques - Partie 1 : Exigences générales

Energieaudits - Teil 1: Allgemeine Anforderungen

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

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-CENELEC Management Centre or to any CEN and 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 CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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



CEN-CENELEC Management Centre:
Rue de la Science 23, B-1040 Brussels

საინფორმაციო ნაწილი. სრული ტექსტის სახანაგად შეიძინეთ სტანდარტი.

Contents	Page
European foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Quality requirements	10
4.1 Energy auditor	10
4.1.1 Competency	10
4.1.2 Confidentiality	10
4.1.3 Objectivity	10
4.1.4 Transparency	10
4.2 Energy audit process	10
5 Elements of the energy audit process	10
5.1 Preliminary contact	10
5.2 Start-up meeting	11
5.3 Collecting data	12
5.3.1 General	12
5.3.2 Information request	12
5.3.3 Review of the available data	13
5.3.4 Preliminary data analysis	13
5.4 Measurement plan	13
5.5 Sampling methods	13
5.6 Field work	14
5.6.1 Aim of field work	14
5.6.2 Conduct	14
5.6.3 Site visits	14
5.7 Analysis	15
5.7.1 General	15
5.7.2 Energy balance and breakdown	15
5.7.3 Energy performance indicators (EnPIs)	15
5.7.4 Identify and evaluate EPIA opportunities	15
5.8 Report	16
5.8.1 General	16
5.8.2 Content of report	17
5.9 Final meeting	18
Annex A (informative) Energy Audit Process Flow Diagram	19
Annex B (informative) Examples of energy audit level	20
Annex C (informative) Sampling (Based on ISO 19011:2018 Guidelines for auditing management systems)	22
Bibliography	23

საინფორმაციო ნაწილი. სრული ტექსტის სახსრავად შეიძინეთ სტანდარტი.

European foreword

This document (EN 16247-1:2022) has been prepared by the Joint Technical Committee CEN-CENELEC/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, Ireland, 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.

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.).

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.