

Contents

Page

European foreword.....	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 Quality requirements	8
4.1 Energy auditor.....	8
4.1.1 Competency.....	8
4.1.2 Confidentiality.....	8
4.1.3 Objectivity.....	8
4.1.4 Transparency.....	8
4.2 Energy audit process.....	8
5 Elements of the energy audit process.....	9
5.1 Preliminary contact.....	9
5.2 Start-up meeting.....	10
5.3 Collecting data.....	10
5.3.1 General.....	10
5.3.2 Information request.....	10
5.3.3 Review of the available data.....	12
5.3.4 Preliminary data analysis	12
5.4 Measurement plan	12
5.5 Sampling methods	12
5.6 Field work.....	13
5.6.1 Aim of field work	13
5.6.2 Conduct	13
5.6.3 Site visits	13
5.7 Analysis.....	13
5.7.1 General.....	13
5.7.2 Energy breakdown.....	14
5.7.3 Energy performance indicators	14
5.7.4 Energy Performance Improvement Actions (EPIA).....	15
5.8 Report.....	15
5.8.1 General.....	15
5.8.2 Content of report	15
5.9 Final meeting	15
Annex A (informative) Examples of parties of an energy audit in buildings	16
Annex B (informative) Examples of checklists for energy audit field work in buildings.....	17
B.1 General.....	17
B.2 Checklist	17
B.3 Building visit checklist	18
B.4 The building envelope.....	19

B.5	Useful documents	20
Annex C (informative) Examples of the analysis of energy use in buildings		22
C.1	Overview of the energy use in a building	22
C.2	Analysis of the energy use in a building	23
C.3	Energy breakdown examples	23
Annex D (informative) Examples of analysis checklists for energy audits in buildings		26
D.1	General	26
D.2	Checklist	26
Annex E (informative) Examples of energy performance indicators in buildings		30
E.1	General	30
E.2	Global indicators	30
E.3	Detailed indicators	30
Annex F (informative) Examples of EPIA opportunities in buildings		31
Annex G (informative) Examples of analysis and savings calculations in energy audits in buildings		32
G.1	Roof insulation	32
G.2	Ventilation system	35
Annex H (informative) Examples of the reporting of an energy audit in buildings		39
H.1	General	39
H.2	Table of contents	39
Annex I (informative) Example of energy performance verification method in buildings		41
I.1	General	41
I.2	Energy signature	41
Bibliography		43