
Environmental management — Vocabulary

Management environnemental — Vocabulaire

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
3.1 General terms relating to management systems.....	1
3.2 General terms relating to environmental management.....	3
3.3 Terms relating to environmental management systems.....	6
3.4 Terms relating to verification, validation and audit.....	6
3.5 Terms relating to product systems.....	10
3.6 Terms relating to life cycle assessment.....	12
3.7 Terms relating to environmental labelling, declarations and communication.....	17
3.8 Terms relating to climate change and climate action.....	19
3.9 Terms relating to greenhouse gases.....	21
3.10 Terms relating to water footprint.....	25
3.11 Terms relating to carbon footprint.....	27
3.12 Terms relating to economy and finance.....	27
Annex A (informative) Concept relations and concept systems	32
Bibliography	55
Alphabetical index	57

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 207, *Environmental management*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/SS S26, *Environmental management*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 14050:2009), which has been technically revised. The fourth edition is structured differently from the third edition. It presents a more generic vocabulary of environmental management terminology.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Communication is important in the implementation and operation of environmental management systems. This communication will be most effective if there is a common understanding of the terms used.

To simplify the harmonization of terms and definitions in the field of environmental management, each terminological entry in this document contains a generic term and its definition. Notes to entry and examples have been included only in a few cases to provide additional information or clarification.

The terminology is arranged in subclauses, each representing a specific sub-domain. The sequence of the term entries corresponds to the concept diagrams in [Annex A](#).

This document has been developed in close cooperation with the committees and working groups involved in the development and revision of the ISO 14000 family of standards. A list of published documents in the ISO 14000 family of standards is presented in the Bibliography.

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Environmental management — Vocabulary

1 Scope

This document defines terms used in documents in the fields of environmental management systems and tools in support of sustainable development. These include management systems, auditing and other types of assessment, communications, footprinting studies, greenhouse gas mitigation and adaptation to climate change.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1 General terms relating to management systems

3.1.1

organization

person or group of people that has its own functions with responsibilities, authorities and relationships to achieve its *objectives* (3.1.6)

3.1.2

interested party

stakeholder

person or *organization* (3.1.1) that can affect, be affected by, or perceive itself to be affected by a decision or activity

3.1.3

top management

person or group of people who directs and controls an *organization* (3.1.1) at the highest level

3.1.4

management system

set of interrelated or interacting elements of an *organization* (3.1.1) to establish *policies* (3.1.5) and *objectives* (3.1.6), as well as *processes* (3.1.9) to achieve those objectives

3.1.5

policy

intentions and direction of an *organization* (3.1.1), as formally expressed by its *top management* (3.1.3)

3.1.6

objective

result to be achieved

3.1.7

risk

effect of uncertainty

3.1.8

hazard

potential source of injury or damage to the health of people, or damage to property or the *environment* ([3.2.2](#))

3.1.9

process

set of interrelated or interacting activities that uses or transforms inputs to deliver a result

3.1.10

competence

ability to apply knowledge and skills to achieve intended results

3.1.11

documented information

information required to be controlled and maintained by an *organization* ([3.1.1](#)) and the medium on which it is contained

3.1.12

performance

measurable result

3.1.13

continual improvement

recurring activity to enhance *performance* ([3.1.12](#))

3.1.14

effectiveness

extent to which planned activities are realized and planned results achieved

3.1.15

requirement

need or expectation that is stated, generally implied or obligatory

3.1.16

conformity

fulfilment of a *requirement* ([3.1.15](#))

3.1.17

nonconformity

non-fulfilment of a *requirement* ([3.1.15](#))

3.1.18

corrective action

action to eliminate the cause(s) of a *nonconformity* ([3.1.17](#)) and to prevent recurrence

3.1.19

audit

systematic and independent *process* ([3.1.9](#)) for obtaining evidence and evaluating it objectively to determine the extent to which the *audit criteria* ([3.4.44](#)) are fulfilled

3.1.20

measurement

process ([3.1.9](#)) to determine a value

3.1.21

monitoring

determining the status of a system, a *process* ([3.1.9](#)) or an activity

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3.2 General terms relating to environmental management

3.2.1

environmental management

set of coordinated activities within an *organization* (3.1.1) related to its *environmental aspects* (3.2.20)

3.2.2

environment

surroundings in which an *organization* (3.1.1) operates, including air, water, *land* (3.8.16), *natural resources* (3.2.5), flora, fauna, humans and their interrelationships

3.2.3

ecosystem

dynamic complex of communities of plants, animals and microorganisms and their non-living environment, interacting as a functional entity

3.2.4

ecosystem service

benefit people obtain from one or several *ecosystems* (3.2.3)

3.2.5

natural resource

part of nature that provides benefits to humans or underpins human well-being

3.2.6

environmental baseline

state of the *environment* (3.2.2) without the change that is considered

3.2.7

target group

interested party (3.1.2) or interested parties selected as the focus of an *organization's* (3.1.1) *environmental communication* (3.7.19) activity

3.2.8

third party

person or body that is recognized as being independent of the parties involved, as concerns the issues in question

3.2.9

sustainable development

development that meets the needs of the present without compromising the ability of future generations to meet their own needs

3.2.10

prevention of pollution

use of *processes* (3.1.9), practices, techniques, materials, *products* (3.5.12), or energy to avoid, reduce or control (separately or in combination) the creation, emission or discharge of any type of pollutant or waste, in order to reduce adverse *environmental impacts* (3.2.22)

3.2.11

area of concern

aspect of the natural environment, human health or resources of interest to society

3.2.12

environmental topic area

area of interest or concern for *environmental management* (3.2.1) in an *organization* (3.1.1) in relation to its surroundings

3.2.13

methodology

set of means or *procedures* (3.3.6) used for a specific purpose

3.2.14

transparency

open, comprehensive and understandable presentation of information

3.2.15

benchmark

reference point against which comparisons can be made

3.2.16

equity share

extent of the rights an *organization* (3.1.1) has to the *risks* (3.1.7) and rewards from an operation based on its equity interest

3.2.17

local authority

public body given the authority by legislation or directives of a higher level of government to set general *policies* (3.1.5), plans or *requirements* (3.1.15)

3.2.18

site

location with geographical boundaries and on which activities under the control of an *organization* (3.1.1) can be carried out

3.2.19

facility

single installation, set of installations or production processes (3.1.9) (stationary or mobile), which can be defined within a single geographical boundary, organizational unit or production process

3.2.20

environmental aspect

element of an *organization's* (3.1.1) activities or *products* (3.5.12) that interacts or can interact with the *environment* (3.2.2)

3.2.21

environmental impact pathway

series of consecutive, causal relationships, ultimately starting at an *environmental aspect* (3.2.20) and ending at an *environmental impact* (3.2.22)

3.2.22

environmental impact

change to the *environment* (3.2.2), whether adverse or beneficial, including possible consequences, wholly or partially resulting from an *organization's* (3.1.1) *environmental aspects* (3.2.20)

3.2.23

environmental impact factor

quantity of *environmental impact* (3.2.22) per quantity of *environmental aspect* (3.2.20)

3.2.24

indicator

quantitative, qualitative or binary variable that can be measured, calculated or described, representing the status of operations, management, conditions or impacts

3.2.25

key performance indicator

KPI

indicator (3.2.24) of *performance* (3.1.12) deemed by an *organization* (3.1.1) to be significant and giving prominence and attention to certain aspects of operations, management, conditions or impacts

3.2.26**combined indicator**

indicator (3.2.24) that includes information on more than one aspect of operations, management, conditions or impacts

3.2.27**environmental performance**

performance (3.1.12) related to the management of *environmental aspects* (3.2.20)

3.2.28**environmental performance evaluation****EPE**

process (3.1.9) to facilitate management decisions regarding an *organization's* (3.1.1) *environmental performance* (3.2.27) by selecting *indicators* (3.2.24), collecting and analysing data, assessing information against environmental performance criteria, reporting and communicating, and periodically reviewing and improving this process

3.2.29**environmental performance indicator****EPI**

indicator (3.2.24) that provides information about an *organization's* (3.1.1) *environmental performance* (3.2.27)

3.2.30**management performance indicator****MPI**

environmental performance indicator (3.2.29) that provides information about the management efforts to influence an *organization's* (3.1.1) *environmental performance* (3.2.27)

3.2.31**operational performance indicator****OPI**

environmental performance indicator (3.2.29) that provides information about the *environmental performance* (3.2.27) of an *organization's* (3.1.1) operation

3.2.32**environmental condition indicator**

indicator (3.2.24) that provides information about the local, regional, national or global *environmental condition* (3.2.33)

3.2.33**environmental condition**

state or characteristic of the *environment* (3.2.2) as determined at a certain point in time

3.2.34**sphere of influence**

range or extent of political, contractual, economic or other relationships through which an *organization* (3.1.1) has the ability to affect the decisions or activities of individuals or organizations

3.2.35**trade-off**

decision-making actions that select from various *requirements* (3.1.15) and alternative solutions on the basis of net benefit to *interested parties* (3.1.2)

3.3 Terms relating to environmental management systems

3.3.1 environmental management system

EMS

part of the *management system* (3.1.4) used to manage *environmental aspects* (3.2.20), fulfil *compliance obligations* (3.3.4), and address *risks* (3.1.7) and opportunities

3.3.2 environmental policy

policy (3.1.5) related to *environmental performance* (3.2.27)

3.3.3 environmental objective

objective (3.1.6) set by the *organization* (3.1.1) and consistent with its *environmental policy* (3.3.2)

3.3.4 compliance obligation

legal requirement that an *organization* (3.1.1) has to comply with or other *requirement* (3.1.15) that an organization has to or chooses to comply with

3.3.5 maturity level

level of achievement in the implementation process measured on a scale of maturity for *environmental management system* (3.3.1) elements

3.3.6 procedure

specified way to carry out an activity or a *process* (3.1.9)

3.4 Terms relating to verification, validation and audit

3.4.1 verification

conformity assessment

confirmation through the provision of *objective evidence* (3.4.32), that specified *requirements* (3.1.15) have been fulfilled

3.4.2 verification statement

formal declaration of the outcome of a *verification* (3.4.1)

3.4.3 verification team

one or more *verifiers* (3.4.5) conducting a *verification* (3.4.1), supported if needed by *technical experts* (3.4.36)

3.4.4 verification body

organization (3.1.1) that performs *verifications* (3.4.1)

3.4.5 verifier

competent and independent person or persons with responsibility for performing and reporting on a *verification* (3.4.1) *process* (3.1.9)

3.4.6 verification plan

planning document detailing the implementation of *verification* (3.4.1)

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3.4.7**verification report**

document detailing a *verification* (3.4.1) and its results

3.4.8**environmental claim verification**

confirmation of the validity of an *environmental claim* (3.7.3) using specific predetermined criteria and *procedures* (3.3.6) with an assurance of data reliability

3.4.9**technology**

application of scientific knowledge, tools, techniques, crafts or systems in order to solve a problem or to achieve an *objective* (3.1.6), which can result in a *product* (3.5.12) or *process* (3.1.9)

3.4.10**environmental technology**

technology (3.4.9) that either results in an *environmental added value* (3.4.12) or measures parameters that indicate an *environmental impact* (3.2.22)

3.4.11**environmental technology verification**

verification (3.4.1) of the *performance* (3.1.12) of an *environmental technology* (3.4.10) by a *verifier* (3.4.5)

3.4.12**environmental added value**

more beneficial or less adverse *environmental impact* (3.2.22) of a *technology* (3.4.9) with respect to the relevant alternative

3.4.13**intrusive investigation**

sampling and testing requiring physical interference

3.4.14**professional scepticism**

attitude that includes a questioning mind and a critical assessment of evidence

3.4.15**completeness check**

process (3.1.9) of verifying whether information from the phases of a *life cycle assessment* (3.6.2) is sufficient for reaching conclusions in accordance with the goal and scope definition

3.4.16**consistency check**

process (3.1.9) of verifying that the assumptions, methods and data are consistently applied throughout the study and are in accordance with the goal and scope definition performed before conclusions are reached

3.4.17**sensitivity check**

process (3.1.9) to determine that the information obtained from a *sensitivity analysis* (3.6.25) is relevant for reaching conclusions, changing results, have influence on results and giving recommendations

3.4.18**test body**

organization (3.1.1) providing an environment for testing, test implementation and means for performing and reporting on the testing

3.4.19**test plan**

planning document detailing the principles, test methods, conditions, *procedures* (3.3.6) and *data quality* (3.6.46) required to carry out testing and to produce test data

3.4.20

test report

document describing conditions and results of testing, and usually including a description of or reference to *procedures* (3.3.6)

3.4.21

validation

confirmation through the provision of *objective evidence* (3.4.32) that the *requirements* (3.1.15) for a specific intended use or application have been fulfilled

3.4.22

validation statement

formal declaration of the outcome of a *validation* (3.4.21)

3.4.23

validation team

one or more *validators* (3.4.25) conducting a *validation* (3.4.21), supported if needed by *technical experts* (3.4.36)

3.4.24

validation body

organization (3.1.1) that performs *validations* (3.4.21)

3.4.25

validator

competent and independent person or persons with responsibility for performing a *validation* (3.4.21) and reporting on the results of the validation

3.4.26

complaint

expression of dissatisfaction, other than by appeal, by any person or *organization* (3.1.1) to another person or organization, relating to its activities, where a response is expected

3.4.27

validation criteria

policy (3.1.5), *procedure* (3.3.6) or *requirement* (3.1.15) used as a reference against which evidence is compared

3.4.28

level of assurance

degree of reliability the intended user requires in a *validation* (3.4.21) or *verification* (3.4.1)

3.4.29

conflict of interest

situation in which, because of other activities or relationships, impartiality in performing *validation* (3.4.21) or *verification* (3.4.1) activities is or could be compromised

3.4.30

accreditation

third-party attestation related to a *validation body* (3.4.24), *verification body* (3.4.4) or certification body conveying a formal demonstration of its *competence* (3.1.10) to carry out specific *validation* (3.4.21) or *verification* (3.4.1) tasks

3.4.31

accreditation body

authority that performs *accreditation* (3.4.30)

3.4.32

objective evidence

<audit> data supporting the existence or verity of something

3.4.33**audit client**

organization (3.1.1) or person requesting an *audit* (3.1.19)

3.4.34**auditee**

organization (3.1.1) being audited

3.4.35**audit team**

one or more persons conducting an *audit* (3.1.19), supported if needed by *technical experts* (3.4.36)

3.4.36**technical expert**

person who provides specific knowledge on a specified subject

3.4.37**auditor**

person who conducts an *audit* (3.1.19)

3.4.38**combined audit**

audit (3.1.19) carried out together at a single *auditee* (3.4.34) on two or more *management systems* (3.1.4)

3.4.39**joint audit**

audit (3.1.19) carried out at a single *auditee* (3.4.34) by two or more auditing organizations (3.1.1)

3.4.40**internal audit**

audit (3.1.19) where the *audit team* (3.4.35) belongs to the *auditee* (3.4.34)

3.4.41**audit programme**

set of one or more *audits* (3.1.19) planned for a specific time frame and directed towards a specific purpose

3.4.42**audit scope**

extent and boundaries of an *audit* (3.1.19)

3.4.43**audit plan**

description of the activities and arrangements for an *audit* (3.1.19)

3.4.44**audit criteria**

set of *requirements* (3.1.15) used as a reference against which *objective evidence* (3.4.32) is compared

3.4.45**audit evidence**

records, statements of fact or other information, which are relevant to the *audit criteria* (3.4.44) and verifiable

3.4.46**audit findings**

results of the evaluation of the collected *audit evidence* (3.4.45) against *audit criteria* (3.4.44)

3.4.47**audit conclusion**

outcome of an *audit* (3.1.19), after consideration of the audit *objectives* (3.1.6) and all *audit findings* (3.4.46)