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Environmental management - Vocabulary - Amendment 1 (ISO 14050:2020/DAM 1:2022)

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Management environnemental Vocabulaire Amendement 1

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Environmental management — Vocabulary

AMENDMENT 1

Management environnemental — Vocabulaire

AMENDEMENT 1

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Foreword

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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).

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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.

Environmental management — Vocabulary

AMENDMENT 1

1 Normative references

There are no normative references in this document.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.5 Terms relating to product systems

3.5.1

product system

collection of *unit processes* (3.6.16) with *elementary flows* (3.5.14) and *product flows* (5.163.), performing one or more defined functions and which models the *life cycle* (3.6.1) of a *product* (3.5.20)

3.5.2

process energy

energy input required for operating the *process* (3.1.9) or equipment within a *unit process* (3.6.16), excluding energy inputs for production and delivery of the process energy itself

3.5.3

energy use

manner or kind of application of energy

3.5.4

product system value

worth or desirability ascribed to a *product system* (3.5.1)

3.5.5

product system value indicator

numerical quantity representing the *product system value* (3.5.4)

3.5.6

double counting

accounting for the inputs or outputs of a *process* (3.1.9) more than once

3.5.7

product standard

standard that specifies *requirements* (3.1.15) to be fulfilled by a *product* (3.5.20) or group of products, to establish its *fitness for purpose* (3.5.8)

3.5.8

fitness for purpose

ability of a *product* (3.5.20) or a *process* (3.1.9) to serve a defined purpose under specific conditions

3.5.9

product environmental criteria

⟨environmental labelling⟩ environmental *requirements* (3.1.15) that the *product* (3.5.20) has to meet in order to be awarded an *environmental label* (3.7.1)

3.5.10

product environmental aspect

element of a *product* (3.5.20) that, during its *life cycle* (3.6.1), can interact with the *environment* (3.2.2)

3.5.11

performance tracking of an organization

comparison of the *performance* (3.1.12) of the same *organization's* (3.1.1) *products* (3.5.20) and *unit processes* (3.6.16) over time, based on the same time period, *system boundary* (3.6.17) and reporting unit

3.5.12

functional unit

quantified *performance* (3.1.12) of a *product system* (3.5.1) for use as a reference unit

3.5.13

reference flow

measure of the outputs from *processes* (3.1.9) in a given *product system* (3.5.1) required to fulfil the function expressed by the *functional unit* (3.5.12)

3.5.14

elementary flow

material or energy entering the system being studied that has been drawn from the *environment* (3.2.2) without previous human *transformation* (3.8.3), or material or energy leaving the system being studied that is released into the environment without subsequent human transformation

3.5.15

intermediate flow

product flow (3.5.16), *material flow* (3.5.17) or *energy flow* (3.5.18) occurring between *unit processes* (3.6.16) of the *product system* (3.5.1) being studied

3.5.16

product flow

products (3.5.20) entering from or leaving to another *product system* (3.5.1)

3.5.17

material flow

input or output of a material or group of materials

3.5.18

energy flow

input to or output from a *unit process* (3.6.16), an *information module* (3.6.41) or a *product system* (3.5.1), quantified in energy units

3.5.19

allocation

partitioning the input or output of a *process* (3.1.9) or a *product system* (3.5.1) between the product system under study and one or more other product systems

3.5.20

product

any goods or service

3.5.21

raw material

primary or secondary material that is used to produce a *product* (3.5.20)

3.5.22

feedstock energy

heat of combustion of a *raw material* (3.5.21) input that is not used as an energy source to a *product system* (3.5.1), expressed in terms of higher heating value or lower heating value

3.5.23

co-product

product (3.5.20) coming from the same *unit process* (3.6.16) or *product system* (3.5.1) as one or more other products

3.5.24

intermediate product

output from a *unit process* (3.6.16) within a system that is input to one or more other unit process(es) within the same system, where it is transformed

3.5.25

final product

product (3.5.20) that requires no additional *transformation* (3.8.3) prior to its use

3.5.26

packaging

product (3.5.20) that is used to protect or contain another product during transportation, storage, marketing or use

3.5.27

consumer

individual member of the general public purchasing or using *products* (3.5.20) and property for private purposes

3.5.28

service life

period of time during which a *product* (3.5.20) in use meets or exceeds the *performance* (3.1.12) *requirements* (3.1.15)

3.5.29

product function characteristic

attribute or characteristic in the *performance* (3.1.12) and use of a *product* (3.5.20)

3.5.30

recyclable

characteristic of a *product* (3.5.20), including *packaging* (3.5.26) and associated component, that can be diverted from the waste stream through available *processes* (3.1.9) and programmes, and can be collected, processed and returned to use in the form of *raw materials* (3.5.21)

3.5.31

upgradability

characteristic of a *product* (3.5.20) that allows its modules or parts to be separately upgraded or replaced without having to replace the entire product

3.5.32

supply chain

those involved, through upstream and downstream linkages, in activities delivering value in the form of a *product* (3.5.20) to different *interested parties* (3.1.2)

3.5.33

design and development

process (3.1.9) that transforms *requirements* (3.1.15) into a *product* (3.5.20)

3.5.34

value chain

entire sequence of activities or parties that create or receive value through the provision of a *product* (3.5.20)

3.5.35

ecodesign

systematic approach that considers *environmental aspects* (3.2.20) in *design and development* (3.5.33) with the aim to reduce adverse *environmental impacts* (3.2.22) throughout the *life cycle* (3.6.1) of a *product* (3.5.20)

3.5.36

release

emission to air or discharge to water or soil

3.6 Terms relating to life cycle assessment

3.6.1

life cycle

consecutive and interlinked stages of a *product system* (3.5.1), from *raw material* (3.5.21) acquisition or generation from *natural resources* (3.2.5) to final disposal

3.6.2

life cycle assessment

LCA

compilation and assessment of the inputs, outputs and the potential *environmental impacts* (3.2.22) of a *product system* (3.5.1) throughout its *life cycle* (3.6.1)

3.6.3

organizational life cycle assessment

OLCA

compilation and evaluation of the inputs, outputs and potential *environmental impacts* (3.2.22) of the activities associated with an *organization* (3.1.1) as a whole or portion thereof adopting a *life cycle* (3.6.1) perspective

3.6.4

life cycle impact assessment

LCIA

phase of *life cycle assessment* (3.6.2) aimed at understanding and evaluating the magnitude and significance of the potential *environmental impacts* (3.2.22) for a *product system* (3.5.1) throughout the *life cycle* (3.6.1) of the *product* (3.5.20)

3.6.5

impact category

⟨life cycle assessment⟩ class representing environmental issues of concern to which *life cycle inventory analysis results* (3.6.11) can be assigned

3.6.6

impact category indicator

⟨life cycle assessment⟩ quantifiable representation of *impact category* (3.6.5)

3.6.7

eco-efficiency

aspect of sustainability relating the *environmental performance* (3.2.24) of a *product system* (3.5.1) to its *product system value* (3.5.4)

3.6.8

eco-efficiency indicator

measure relating environmental performance (3.2.24) of a product system (3.5.1) to its product system value (3.5.4)

3.6.9

eco-efficiency profile

eco-efficiency (3.6.7) assessment results relating the *life cycle impact assessment* (3.6.4) results to the *product system value* (3.5.4) assessment results

3.6.10

life cycle inventory analysis

phase of *life cycle assessment* (3.6.2) involving the compilation and quantification of inputs and outputs for a *product* (3.5.20) throughout its *life cycle* (3.6.1)

3.6.11

life cycle inventory analysis result

outcome of a *life cycle inventory analysis* (3.6.10) that catalogues the flows crossing the *system boundary* (3.6.17) and provides the starting point for *life cycle impact assessment* (3.6.4)

3.6.12

weighting factor

factor that is applied to convert an assigned *life cycle inventory analysis result* (3.6.11) or a life cycle *impact category indicator* (3.6.6) result to the common unit of the weighting indicator

3.6.13

cut-off criteria

specification of the amount of *material flow* (3.5.17) or *energy flow* (3.5.18) or the level of environmental significance associated with *unit processes* (3.6.16) or the *product system* (3.5.1) to be excluded from a study

3.6.14

category endpoint

attribute or aspect of the natural *environment* (3.2.2), human health or resources, which identifies an environmental issue giving cause for concern

3.6.15

characterization factor

factor derived from a characterization model, which is applied to convert an assigned *life cycle inventory analysis result* (3.6.11) to the common unit of the category *indicator* (3.2.29)

3.6.16

unit process

smallest element considered in the *life cycle inventory analysis* (3.6.10) for which input and output data are quantified

3.6.17

system boundary

set of criteria specifying which *unit processes* (3.6.16) are part of a *product system* (3.5.1)

3.6.18

uncertainty analysis

systematic *procedure* (3.3.6) to quantify the uncertainty in the results of a *life cycle inventory analysis* (3.6.10) or *product system value* (3.5.4) assessment due to the cumulative effects of model imprecision, input uncertainty and data variability

3.6.19

sensitivity analysis

systematic *procedure* (3.3.6) for estimating the effects of the choices made regarding methods and data on the outcome of a study

3.6.20

life cycle interpretation

phase of *life cycle assessment* (3.6.2) in which the findings of either the *life cycle inventory analysis* (3.6.10) or the *life cycle impact assessment* (3.6.4), or both, are evaluated in relation to the defined goal and scope in order to reach conclusions and recommendations

3.6.21

critical review

process (3.1.9) intended to ensure *conformity* (3.1.16) of a *life cycle assessment* (3.6.2) or an *eco-efficiency* (3.6.7) assessment to the principles and *requirements* (3.1.15) of the relevant International Standards

3.6.22

critical review statement

conclusive document aggregating the conclusions from the reviewer(s) regarding the *life cycle assessment* (3.6.2) study, and stating unambiguously whether the life cycle assessment study is in conformance with the *requirements* (3.1.15)

3.6.23

critical review report

documentation of the *critical review* (3.6.21) process and its findings, including detailed comments from the reviewer(s) or the critical review panel, as well as corresponding responses from the practitioner of the *life cycle assessment* (3.6.2) study

3.6.24

commissioner of the critical review

organization (3.1.1) (or group of organizations) that finances the *critical review* (3.6.21) of the *life cycle assessment* (3.6.2) study

3.6.25