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Title: Draft BS EN ISO 14025 Environmental statements and programmes for products -Environmental product declarations (EPDs).

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

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- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 14025

Environmental statements and programmes for products — Environmental product declarations (EPDs)

ICS: 13.020.50

ISO/TC 207/SC 3

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This document is circulated as received from the committee secretariat.

ISO/CEN PARALLEL PROCESSING

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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.

ISO 14025 was prepared by Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 3, *Environmental labelling*.

This second edition of ISO 14025 cancels and replaces ISO 14025:2006, which has been technically revised.

The main changes compared to the previous edition are as follows:

- the title of the standard has been updated;
- removal of some of the content from [clauses 4](#), [5](#), [6](#) and [7](#) which have been transferred to the revised ISO 14020;
- description of the concept of ‘additional environmental or other sustainability-related information’ and how to include this type of information into an EPD;
- the addition of a normative reference to ISO/TS 14027 and ISO/TS 14029
- inclusion of an informative annex on harmonization of PCRs and EPD programmes for EPD Comparability according to ISO/TS 14027 and ISO/TS 14029;
- inclusion of a new section on EPD types and requirements; and
- updated EPD programme requirements on PCR review and aspects of verification to satisfy the demands of the marketplace.

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

0.1 This document contains principles, requirements and guidance for environmental product declaration (EPD) programmes and EPDs. EPDs provide quantified environmental information on the life cycle of a product that can support comparisons between products fulfilling the same function. EPDs:

- are provided by one or more organizations;
- are based on independently verified life cycle assessment (LCA) data, life cycle inventory analysis (LCI) data or information modules in accordance with the ISO 14040 and ISO 14044 and, where relevant and available, additional environmental or other sustainability-related information;
- are developed using predetermined impact indicators and predetermined inventory indicators; and
- are subject to the administration of a programme operator, such as a company or a group of companies, industrial sector or trade association, public authorities or agencies, or an independent scientific body or other organization.

0.2 EPDs are one type of environmental statement. The overall goals of environmental statements are to:

- communicate accurate information about environmental aspects or impacts of products;
- encourage the demand for and supply of products that cause less stress on the environment;
- stimulate market-driven continual environmental improvement in products; and
- where relevant, support compliance with regulation.

0.3 An EPD is not in itself a comparative assertion and does not declare the environmental preferability of a product.

NOTE In practice EPD programmes and EPDs are referred to by various names such as Eco Leaf, eco-profile, environmental declaration of product, environmental profile and environmental footprint.

0.4 EPD programmes following this document are required to ensure that both the supporting LCA data and the resulting EPDs undergo independent verification either internally or externally. This could, but does not necessarily, mean third-party verification except in the case of business-to-consumer EPDs, in which case this document requires that EPD programmes specify that all verifications be carried out as third-party verification.

0.5 Harmonization of general programme instructions (GPI) and particularly product category rules (PCRs) are encouraged between EPD programmes to be aligned with the principle of comparability (see 4.3). This includes mutual recognition of rules with respect to PCR development, PCR review and verification procedures, administrative procedures and EPD format. To help ensure comparability of EPDs, programme operators are encouraged to work cooperatively to achieve harmonization of the programmes and PCRs and to develop mutual recognition arrangements (MRAs).

To support harmonization, two complementary documents have been published – ISO/TS 14027 and ISO/TS 14029. These supporting documents describe principles and requirements for PCR development and MRA respectively, and are complementary to the related clauses in this document.

NOTE Practical guidance on harmonization of PCRs and EPD programmes according to ISO/TS 14027 and ISO/TS 14029 in conjunction with this document can be found in [Annex C](#).

0.6 The objective of this document is to harmonize the development and credible use of EPDs. The benefits of this document will be:

- a) increased opportunities for purchasers, potential purchasers and users of products to make informed comparisons of, and purchasing decision related to, products;
- b) to encourage improvement of environmental performance of products;
- c) to provide information for assessing the environmental impacts of products over their life cycle;

- d) accurate and verifiable EPDs that are not misleading;
- e) increased potential for market forces to stimulate environmental improvements in production processes and products;
- f) prevention or minimization of unwarranted EPDs;
- g) reduction in marketplace confusion with other types of environmental statements and general certification of products that fulfil environmental or other sustainability-related requirements.

0.7 This document is one of a series of ISO documents (i.e., the ISO 14020 family of standards) that provide principles, requirements and guidance for different types of environmental statements. The documents in the ISO 14020 family of standards include:

- ISO 14020: common terms and definitions, principles and general requirements for all environmental statements (e.g. self-declared environmental claims, ecolabels, EPDs and footprint communications) and associated programmes that enable the communication of environmental aspects and environmental impacts of products.
- ISO 14021: principles, requirements and guidance for environmental statements in the form of self-declared environmental claims.
- ISO 14024: principles, requirements and guidance for environmental statements in the form of environmental labels known as ecolabels.
- ISO 14025: principles, requirements and guidance for environmental statements in the form of environmental product declarations (EPDs).
- ISO 14026: principles, requirements and guidance for environmental statements in the form of footprint communications.
- ISO/TS 14027: principles, requirements and guidance for product category rules (PCR) that support the use of life cycle assessment as a method to compile and evaluate information that is used as a basis for making environmental statements.
- ISO/TS 14029: principles, requirements and guidance for the mutual recognition of EPDs, footprint communications and associated programmes.

0.8 The following diagram provides the existing structure of the ISO 14020 family of standards in graphic form.

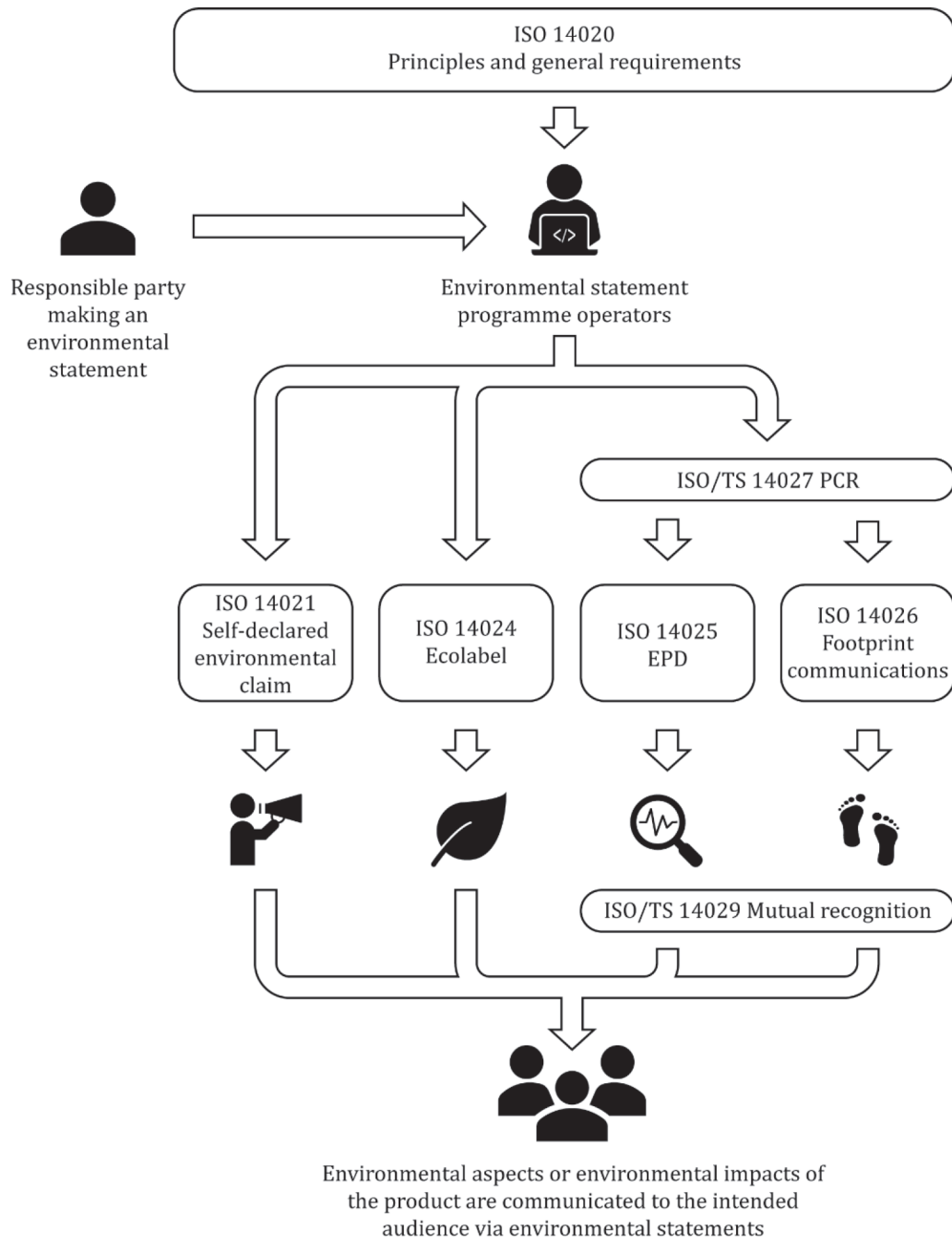


Figure 1 — Structure of the ISO 14020 family of standards

0.9 This document makes normative reference to requirements in ISO 14020. Those requirements refer to the generic term 'environmental statement'. In reading this document and ISO 14020 together, the generic term 'environmental statement' in ISO 14020 can be interpreted as referring to the specific term included in this document i.e. 'environmental product declaration (EPD)'.

Environmental statements and programmes for products — Environmental product declarations (EPDs)

1 Scope

1.1 This document specifies principles and requirements, and provides guidance for environmental product declaration (EPD) programmes and their associated environmental product declarations. This document specifies the use of ISO 14040 and ISO 14044 on life cycle assessment in the development of EPDs.

1.2 This document covers EPD programmes and their associated EPDs intended to address environmental impacts and aspects of products which can also include related social and economic aspects in support of sustainable development.

NOTE 1 This document does not deal with Social-LCA and Economic-LCA indicators.

NOTE 2 Related social and economic aspects of the products can be reported as additional sustainability-related information, where relevant and available.

1.3 This document provides guidance and requirements for the communication of the environmental impacts and aspects of products to the intended audience of the EPD.

1.4 This document does not include sector-specific provisions, which are dealt with in other ISO documents. It is intended that sector-specific provisions in other ISO documents related to EPDs be based on and use the principles, requirements, and guidance of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies.

For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 14020:2022, *Environmental statements and programmes for products - Principles and general requirements*

ISO/TS 14027:2017, *Environmental labels and declarations — Development of product category rules*

ISO/TS 14029:2022, *Environmental statements and programmes for products — Mutual recognition of environmental product declarations (EPDs) and footprint communication programmes*

ISO 14040, *Environmental management — Life cycle assessment — Principles and framework*

ISO 14044, *Environmental management — Life cycle assessment — Requirements and guidelines*

ISO 14050, *Environmental management — Vocabulary*

ISO 14071:2024, *Environmental management — Life cycle assessment — Critical review processes and reviewer competencies*

3 Terms, definitions and abbreviated terms

For the purposes of this document, the terms and definitions given in ISO 14050 and the following shall apply.

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 <https://www.electropedia.org/>

3.1 Terms related to the environment

3.1.1 environment

surroundings in which an organization operates, including air, water, land, natural resources, flora, fauna, humans and their interrelationships

Note 1 to entry: Surroundings can extend from within an organization to the local, regional and global system.

Note 2 to entry: Surroundings can be described in terms of biodiversity, ecosystems, climate or other characteristics of an organization's activities (including projects) or *products* (3.2.4) that interact or can interact with the environment.

[SOURCE: ISO 14020:2022, 3.1.2]

3.1.2 environmental aspect

element of an organization's activities or *products* (3.2.4) that interacts or can interact with the *environment* (3.1.1)

Note 1 to entry: Typically, environmental aspects can include emissions to air, discharges to water and waste arisings, which in turn can generate environmental and human health impacts such as global warming, smog, water pollution or contaminated land.

[SOURCE: ISO 14020:2022, 3.1.3, modified – reference to “human” added in Note 1 to entry.]

3.1.3 environmental impact

change to the *environment* (3.1.1), whether adverse or beneficial, including possible consequences, wholly or partially resulting from an organization's *environmental aspects* (3.1.2)

[SOURCE: ISO 14020:2022, 3.1.4]

3.1.4 environmental performance

performance related to the management of *environmental aspects* (3.1.2)

[SOURCE: ISO 14020:2022, 3.1.5]

3.1.5 environmental information

subject matter of a qualitative or quantitative nature that is related to environmental conditions or *environmental performance* (3.1.4) of a *product* (3.2.4)

3.1.6 sustainability-related information

subject matter of a qualitative or quantitative nature that is related to social or economic aspects that are affected by environmental conditions or the *environmental performance* (3.1.4) of a *product* (3.2.4)

3.2 Terms related to EPDs and EPD programmes

3.2.1

environmental statement

DEPRECATED: environmental label

DEPRECATED: environmental declaration

information on one or more *environmental aspect(s)* (3.1.2) or *environmental impact(s)* (3.1.3) of a *product* (3.2.4) that intends to inform and influence the market of the product

Note 1 to entry: The environmental statement can represent a point in time or can cover a period of time.

Note 2 to entry: Types of environmental statement include, but are not limited to:

- a) self-declared environmental claims;
- b) ecolabels;
- c) *EPDs* (3.2.2);
- d) footprint communications.

Note 3 to entry: An environmental statement can appear on a product or packaging as a label, a symbol, a logo, an electronic product label or a machine-readable code (e.g., QR code and bar code). It can also be communicated in other ways, e.g. in web-based product data or in an advertisement.

[SOURCE: ISO 14020:2022, 3.2.1, modified — listed deprecated terms has been changed, Note 3 to entry has been revised and Note 4 to entry has been removed.]

3.2.2

environmental product declaration

EPD

DEPRECATED: Type III environmental declaration

environmental statement (3.2.1) providing environmental data of a *product* (3.2.4) using *predetermined impact indicators* (3.3.9) and *predetermined inventory indicators* (3.3.8) resulting from an *LCA* (3.3.2) and, where relevant and available, additional *environmental information* (3.1.5)

Note 1 to entry: The predetermined indicators address relevant *environmental impacts* (3.1.3) and *aspects* (3.1.2), the results of those predetermined indicators are derived from an LCA using *PCR* (3.3.3).

Note 2 to entry: Requirements for an LCA are given in ISO 14040 and ISO 14044.

Note 3 to entry: EPDs can include quantitative and qualitative data.

Note 4 to entry: EPDs can include, where relevant and available, data related to additional *sustainability-related information* (3.1.6).

Note 5 to entry: Requirements for PCRs are given in ISO/TS 14027.

[SOURCE: ISO 14020: 2022, 3.2.8, modified — in the definition, the terminology regarding indicators has been made more specific and reference has been added to “where relevant and available”, Note 1 to entry has been revised and Note 4 to entry has been replaced.]

3.2.3

EPD programme

DEPRECATED: Type III environmental declaration programme

rules and procedures for providing an *EPD* (3.2.2)

Note 1 to entry: EPD programmes can be carried out at international, regional, national or sub-national levels.

Note 2 to entry: An EPD programme can include requirements for conformity assessment.

Note 3 to entry: For EPD programmes, the *programme operator* (3.2.8) is typically a party that is external to the *responsible party* (3.2.11).

Note 4 to entry: Derived from the definition of ‘environmental statement programme’, 3.3.1, in ISO 14020.

3.2.4

product

any goods or service

[SOURCE: ISO 14050: 2020, 3.5.12.]

3.2.5

product category

group of *products* ([3.2.4](#)) that can fulfil equivalent functions

[SOURCE: ISO 14020:2022, 3.2.12]

3.2.6

intended audience

person or organization identified by the *responsible party* ([3.2.11](#)) as being the one that relies on the *environmental statement* ([3.2.1](#)) to make decisions

Note 1 to entry: The intended audience can be a client, purchaser or potential purchaser, investor, *consumer* ([3.2.10](#)), responsible party, *programme operator* ([3.2.8](#)), regulators, financial community, general public or other *interested parties* ([3.2.7](#)), such as local communities, governmental or non-governmental organizations (NGOs).

[SOURCE: ISO 14020:2022, 3.2.14]

3.2.7

interested party

person or organization that can affect, be affected by, or perceive itself to be affected by an *environmental statement* ([3.2.1](#))

Note 1 to entry: To “perceive itself to be affected” means the interested party has made its perception known to the *programme operator* ([3.2.8](#)).

Note 2 to entry: The interested parties for *EPD programmes* ([3.2.3](#)) can include, but are not limited to, material suppliers, manufacturers, trade associations, purchasers, users, *consumers* ([3.2.10](#)), nongovernmental organizations (NGOs), public agencies and, when relevant, certification bodies.

[SOURCE: ISO 14020:2022, 3.2.15, modified — reference to “environmental statement programmes” has been replaced by “EPD programmes” in Note 2 to entry.]

3.2.8

programme operator

person or organization responsible for developing and maintaining an *EPD programme* ([3.2.3](#))

Note 1 to entry: For *EPDs* ([3.2.2](#)), the programme operator is typically a party that is external to the *responsible party* ([3.2.11](#)).

[SOURCE: ISO 14020:2022, 3.3.3, modified — reference to “environmental statement programme” has been replaced with “EPD programme” in the definition and Note 1 to entry has been revised.]

3.2.9

general programme instructions

GPI

guidelines for the operation of an *EPD programme* ([3.2.3](#))

[SOURCE: ISO/TS 14029:2022, 3.4, modified — reference to “footprint communication programme” has been removed from the definition.]

3.2.10

consumer

individual member of the general public purchasing or using *products* ([3.2.4](#)) and property for private purposes

[SOURCE: ISO 14050:2020, 3.5.17]

3.2.11

responsible party claimant

person or organization responsible for the provision of the *EPD* (3.2.2)

Note 1 to entry: The supplier or manufacturer of the *product* (3.2.4) usually is the responsible party.

[SOURCE: ISO 14020:2022, 3.2.13, modified — “environmental statement” has been replaced with “EPD” in the definition and Note 1 to entry has been revised.]

3.2.12

EPD tool

calculation tool specifically developed to simplify the *LCA* (3.3.2) calculation procedures in order to generate an *EPD* (3.2.2) based on *PCR* (3.3.3)

Note 1 to entry: An EPD tool is typically verified, leading to a simplified EPD verification process.

3.3 Terms related to life cycle

3.3.1

life cycle

consecutive and interlinked stages, from raw material acquisition or generation from natural resources to final disposal

[SOURCE: ISO 14044: 2006/Amd 2: 2020, 3.1]

3.3.2

life cycle assessment

LCA

compilation and evaluation of the *inputs* (3.3.14), *outputs* (3.3.15) and the potential *environmental impacts* (3.1.3) of a product system throughout its *life cycle* (3.3.1)

[SOURCE: ISO 14020:2022, 3.4.2]

3.3.3

product category rules

PCR

set of specific rules, requirements and guidelines for developing *EPDs* (3.2.2) based on *LCA* (3.3.2) for one or more *product categories* (3.2.5)

[SOURCE: ISO 14020: 2022, 3.4.3, modified — reference to “statements” has been replaced by “EPDs”.]

3.3.4

information module

compilation of data to be used as a basis for an *EPD* (3.2.2), covering a unit process or a combination of unit processes that are part of the *life cycle* (3.3.1) of a *product* (3.2.4)

3.3.5

declared unit

quantity of a *product* (3.2.4) for use as a reference unit in an *EPD* (3.2.2) based on *LCA* (3.3.2), for the expression of *environmental information* (3.1.5) needed in *information modules* (3.3.4)

EXAMPLE Mass (kilogram or metric tonne), volume (cubic metre).

Note 1 to entry: The declared unit is used where the function and the reference scenario for the whole *life cycle* (3.3.1) cannot be stated.

3.3.6

functional unit

quantified performance of a product system for use as a reference unit

[SOURCE: ISO 14040:2006, 3.20]