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BSI Standards Publication

Circular economy — Product circularity data sheet

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee CED/1.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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ISO 59040

**Circular economy — Product
circularity data sheet**

*Économie circulaire — Fiche de données de circularité des
produits*

**First edition
2025-02**

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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 document 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 323, *Circular economy*.

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.

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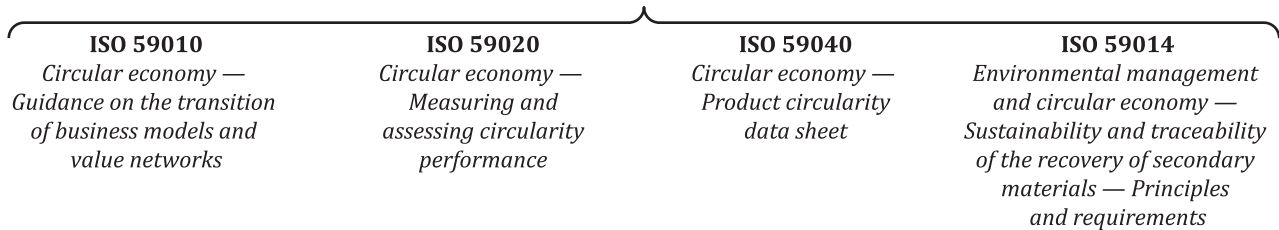
The global economy is “linear” as it is mainly based on extraction, production, use and disposal. This linear economy leads to resource depletion, biodiversity loss, waste and harmful losses and releases, all of which collectively are causing serious damage to the capacity of the planet to continue to provide for the needs of future generations.^[49] Moreover, several planetary boundaries have already been reached or exceeded.

There is an increased understanding that a transition towards an economy that is more circular, based on a circular use of resources, can contribute to meeting current and future human needs (welfare, housing, nutrition, healthcare, mobility, etc.). Transitioning towards a circular economy can also contribute to the creation and sharing of more value within society and interested parties, while natural resources are managed to be replenished and renewed and in a sustainable way, securing the quality and resilience of ecosystems.

Organizations recognize many potential reasons to engage in a circular economy (e.g. delivering more ambitious and sustainable solutions; improved relationships with interested parties; more effective and efficient ways to fulfil voluntary commitments or legal requirements; engaging in climate change mitigation or adaptation; managing resource scarcity risks, increasing resilience in the environmental, social and economic systems), while contributing to satisfying human needs.

The ISO 59000 family of standards (see [Figure 1](#)) is designed to harmonize the understanding of the circular economy and to support its implementation and measurement. It also considers organizations, such as government, industry and non-profit, in contributing to the achievement of the United Nations (UN) Agenda 2030 for Sustainable Development^[50].

ISO 59004, *Circular economy — Vocabulary, principles and guidance for implementation*



ISO/TR 59031, *Circular economy — Performance-based approach — Analysis of case studies*

ISO/TR 59032, *Circular economy — Review of existing value networks*

Figure 1 — ISO 59000 family of standards

Organizations throughout the world work with suppliers to acquire products. Many organizations establish multiple supplier relationships to cover a variety of business needs, such as purchasing, development, manufacturing, sales and after sales services. Conversely, suppliers provide products to a range of acquirers.

Acquirers and suppliers willing to enter or having entered a relationship for the purpose of dealing with a variety of products should introduce the product circularity data sheet (PCDS) based on the circular economy principles described in the ISO 59000 family of standards. The PCDS is intended to provide information to support the understanding of the circularity aspects of a product, as aligned to the circular economy principles according to the ISO 59000 family of standards. The PCDS is a method of reporting on the circularity performance of a product using PCDS statements providing verifiable data.

This document:

- a) provides a general methodology for establishing, managing and maintaining a PCDS when acquiring or supplying products;
- b) specifies requirements for the reporting of information to be used when creating a PCDS template and provides guidance about managing and sharing a PCDS;

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- d) is intended to facilitate circular economy business models as specified in ISO 59010, by focusing on the exchange of circularity aspects of products (business to business relationship);
- e) is intended to be used by any organization wishing to adopt circular-economy-based practices in their supplier or acquirer relationships.

Data collected by this method can be used for digitalized product documentation.

In order to ensure the application of this document, it can be beneficial to have in place tested and mature systems that apply the specified methodology for managing product circularity data. In accordance with ISO/IEC Guide 17, suitable solutions for all sizes of enterprises should be accessible to reduce burdens. To ensure that small businesses can effectively manage the systems and conform to this document, training programmes can be established. These programmes can aim to educate small businesses on how to use the systems and understand the requirements of this document. Recognizing that small businesses require more time and resources to implement this document, a transition period can be provided.

The structure of this document is shown in [Figure 2](#).

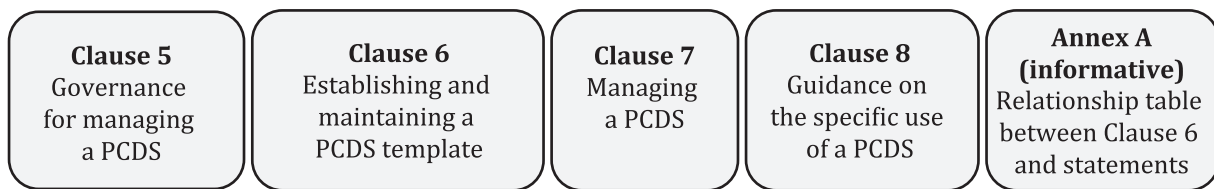


Figure 2 — Structure overview

[Clause 5](#) provides acquirer and supplier guidance for successfully developing and implementing an acquirer and supplier relationship strategy and an acquirer and supplier relationship plan with the associated agreement. [Clause 5](#) also provides guidance for considering PCDS from a risk management perspective.

The guidance contained in [Clause 5](#) should be followed by an organization in the context of using a PCDS when acquiring products or when supplying them, or both.

[Clause 6](#) provides requirements and guidance for establishing and maintaining a PCDS template. It provides guidance on mandatory and additional statements that can be considered when establishing a PCDS template.

[Clause 7](#) provides requirements and guidance to suppliers on processes to produce and manage a PCDS. A supplier is providing answers to each mandatory statement of a PCDS template in order to claim conformance to this document. The additional statements and supplementary information of a PCDS template are not a requirement of this document, meaning that a supplier may claim conformance to this document without completing them.

[Clause 8](#) provides guidance on specific application and usage of a PCDS.

[Annex A](#) provides a relationship table between [Clause 6](#) and PCDS statements, which summarizes mandatory and additional statements.

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Circular economy — Product circularity data sheet

1 Scope

This document establishes a general methodology for information exchange supporting the interoperability of circular economy related information, based on the use of a product circularity data sheet (PCDS).

This document specifies requirements for completing a PCDS by an organization, regardless of its type, size and nature, when acquiring or supplying products in order to permit the exchange of circular economy related information about those products, without disclosing confidential business information.

This document also specifies requirements for the reporting format to be used when creating a PCDS template, based on the selection and use of various product circularity statements, according to the characteristics of the product.

In addition, this document gives guidance on managing and sharing a PCDS, as well as guidance on creating a PCDS template.

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 59004:2024, *Circular economy — Vocabulary, principles and guidance for implementation*

ISO 59020:2024, *Circular economy — Measuring and assessing circularity performance*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 59004 and the following 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/>

3.1 Terms related to acquirer and supplier relationship

3.1.1

acquirer

organization (3.1.2) that acquires or procures a *product* (3.1.3) from another party that is intended for or required by this organization

EXAMPLE Consumer, client, end-user, retailer, receiver of product or service from an internal process, beneficiary, purchaser.

[SOURCE: ISO/IEC/IEEE 15288:2023, 3.1, modified — “organization” replaced “stakeholder”, “product from another party that is intended for or required by this organization” replaced “system, product or service from a supplier”. Example replaced Note 1 to entry.]