

ICS 13.020.10
CCS Z00



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24067-2024

Replacing GB/T 24067-2020

**Greenhouse gases - Carbon footprint of products -
Requirements and guidelines for quantification**

温室气体 产品碳足迹 量化要求和指南

Issued on: August 23, 2024

Implemented on: October 1, 2024

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 3.1 Quantification of product carbon footprint
- 4 Applications
- 5 Principles
- 8 Critical Review

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting is required. This document is modified to adopt ISO 14067.2018 "Requirements and guidelines for quantifying the carbon footprint of greenhouse gas products". Compared with ISO 14067.2018, this document has the following structural adjustments. --Chapter 3 corresponds to

3.1 of ISO 14067.2018; --Deleted

3.2 of ISO 14067.2018; --Added 6.2.1, 6.3.3, 6.3.8, 6.5.3; --6.2.2, 6.3.4~6.3.7, 6.3.9, 6.3.10 correspond to 6.2, 6.3.3~6.3.6, 6.3.7,

6.3.8 of ISO 14067.2018 respectively; --

7.3 corresponds to

7.4 in ISO 14067.2018; --Added Chapter 9; --Added Chapter 10. The technical differences between this document and ISO 14067.2018 and their reasons are as follows: -- Added normative references to GB/T 24025-2009, GB/T 24040-2008, GB/T 24044-2008, GB/T 32150- 2015 and ISO /TS 14027.2017 to adapt to my country's technical conditions and increase operability; --Added 6.2.1 "Product Carbon Footprint - Requirements for the Preparation of Product Category Rules" to increase operability and facilitate the application of this document; --Added data geographic boundaries in 6.3.2 "Research scope of product carbon footprint"

e) to increase operability and facilitate the application of this document; --Added 6.3.3 "Product system and its functions" to facilitate the understanding and determination of

functional units and declaration units; --Added 6.5.3 "Product Carbon Footprint Calculation Formula" to increase operability and facilitate the application of this document; --In 7.3, the content of the product carbon footprint report was changed, and the relevant content of geographic grid division was added to the product carbon footprint report. Convenient application of product carbon footprint reporting. The following editorial changes were made to this document. -- Note 2 to

3.1.7 adds the revised content of ISO 14021; --Deleted Note 3 in

3.1.1.9 of ISO 14067:2018; --Added a note in

3.2.1 and deleted Note 1, Note 2 and Note 3 in

3.1.2.1 of ISO 14067:2018; --Added a note in

3.2.2 and deleted Note 1, Note 2 and Note 3 in

1 Scope

GB/T 24067-2024 sets the Chinese requirements for quantifying the carbon footprint of a product. Product carbon footprints have moved from marketing to trade policy: the EU carbon border adjustment mechanism, the battery regulation and a growing number of customer requirements all demand a figure for the embodied emissions of a specific product, and Chinese exporters have to produce one that will be accepted. This standard is the Chinese method, aligned with ISO 14067. It sets the principles and the requirements for the quantification: the goal and scope definition and the functional unit, the system boundary and the cut-off criteria, the treatment of land use change, of biogenic carbon and of carbon storage, the allocation rules for multi-output processes and for recycling, the data quality requirements and the choice between primary and secondary data, the life cycle inventory and impact assessment, the interpretation, and the content of the study report and of any communication of the result. The 2024 edition replaces GB/T 24067-2020. For an exporter, a consultancy preparing a footprint or a customer assessing one, this is the governing method.

This document specifies the carbon footprint of products in a manner consistent with the Life Cycle Assessment standards (GB/T 24040 and GB/T 24044). Principles, requirements and guidelines for quantifying and reporting carbon footprint of products and products. This document is applicable to product carbon footprint related research, and its results can be applied to different scenarios. Carbon offset and product carbon footprint or product The exchange of partial carbon footprint information is outside the scope of this document. This document only addresses a single type of environmental impact, namely climate change, and does not assess other potential environmental impacts arising from the product life cycle. The possible social and economic impacts during the product life cycle are not evaluated.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 24025-2009 Environmental labels and declarations Type III environmental declaration principles and procedures (ISO 14025.2006, IDT)

GB/T 24040-2008 Principles and framework for environmental management life cycle assessment (ISO 14040.2006, IDT)

GB/T 24044-2008 Requirements and guidelines for life cycle assessment of environmental management (ISO 14044.2006, IDT)

GB/T 32150-2015 General principles for accounting and reporting of greenhouse gas emissions from industrial enterprises

ISO 14026 Principles, requirements and guidelines for communicating environmental labels and declarations (Principles, requirements and guidelines for communication of footprint information) ISO /TS 14027.2017 Environmental labels and declarations - Rules for product categories (Development of product category rules) ISO /TS 14071 Environmental Management Life Cycle Assessment Critical Review Process and Assessor Competence.

ISO 14044.2006 Additional requirements and guidelines (Environmental management-Life cycle assessment-Critical review processes and re- viewer competencies. Additional requirements and guidelines to ISO 14044.2006)

3 Terms and definitions

GB/T 24025-2009, GB/T 24040-2008, GB/T 24044-2008, GB/T 32150-2015 and ISO /TS 14027. For the purposes of this document, the following terms and definitions are applicable.

3.1 Quantification of product carbon footprint

3.1.1 Carbon footprint of a product; CFP The sum of GHG emissions and GHG removals in the product system, expressed in carbon dioxide equivalent, based on a single climate change Conduct life cycle assessment of environmental impact types. Note

1.Product carbon footprints can be broken down into their specific GHG emissions and removals using different legends (see Table 1).