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# NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA



# GB/T 46041-2025

## Greenhouse gases - Quantification method and requirement of product carbon footprint - Electrical and electronic appliances

温室气体 产品碳足迹量化方法与要求 电子电器

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## Foreword

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Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Greenhouse gas product carbon footprint quantification methods and requirements Electronic appliances

## 1 Scope

This document specifies the requirements, purpose and scope of carbon footprint quantification, life cycle inventory analysis and carbon footprint report preparation for electrical and electronic products.

The paper describes the total carbon footprint of electronic and electrical products and the carbon footprint quantification methods at each stage of their life cycle.

This document applies to the quantification of the carbon footprint of electronic and electrical products and partial carbon footprint of products, and is not applicable to carbon offsetting.

## 2 Normative references

GB/T 24025-2009

GB/T 24067-2024

GB/T 32150

## 3 Terms and Definitions

The terms and definitions defined in GB/T 24067, GB/T 32150 and the following apply to this document.

### 3.1 [Source. GB/T 33496-2017, 3.2]

An appliance that uses electronic properties or electrical energy to meet the needs of work and related environments.

### 3.2 Data quality

Characteristics of the data's ability to satisfy stated requirements.

[Source. GB/T 24040-2008, 3.19]

### 3.3 unit process

The most basic part determined to quantify input and output data when conducting a life cycle inventory analysis.

[Source. GB/T 24067-2024, 3.3.6]

### 3.4 functional unit

A benchmark unit used to quantify the functionality of a product system.