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Greenhouse gases - Quantification methodologies and requirements for carbon footprint of products - Lighting products

温室气体 产品碳足迹量化方法与要求 照明产品

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Table of Contents

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.

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.

This document was proposed by China Light Industry Federation.

This document was prepared by the National Technical Committee on Standardization of Lighting Appliances (SAC/TC224) and the National Technical Committee on Standardization of Carbon Emission Management (SAC/TC548) Jointly managed.

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Greenhouse gas product carbon footprint quantification methods and requirements Lighting Products

1 Scope

This document establishes the principles for quantifying the carbon footprint of lighting products, and specifies the purpose and process of quantification, the scope of quantification, data requirements and reporting.

The corresponding calculation method is described.

This document applies to the quantification of greenhouse gas emissions from the carbon footprint and partial carbon footprint of lighting products.

2 Normative references

GB/T 2900.65

GB/T 24044

GB/T 24067

GB/T 32150

3 Terms and definitions

The terms and definitions defined in GB/T 24067, GB/T 24044, GB/T 32150 and GB/T 2900.65 and the following terms and definitions apply to this document.

3.1 Lighting products lighting products

A device or apparatus that converts electrical energy or other energy into light radiation.

Note. Includes light sources, lamps, control gear and other accessories.

3.2 [Source. GB/T 24067-2024, 3.1.1]

The sum of greenhouse gas emissions and greenhouse gas removals in the product system, expressed in carbon dioxide equivalent, based on the climate change Life cycle assessment is conducted for a single environmental impact type.

3.3 [Source. GB/T 24067-2024, 3.1.2]

The relationship between greenhouse gas emissions and greenhouse gas removals at one or more selected stages or processes in the product system life cycle and, expressed in carbon dioxide equivalent.

3.4 Greenhouse gas greenhouse gas; GHG

The natural and human-caused atmospheric layers that absorb and radiate waves generated by the Earth's surface, atmosphere, and clouds.