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**Greenhouse Gases – Quantitative Methods and
Requirements of Product Carbon Footprint – Road Vehicle
Products**

温室气体 产品碳足迹量化方法与要求 道路车辆产品

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Foreword

This Document was drafted as per the rules specified in GB/T 1.1-2020 *Directives for Standardization – Part 1: Rules for the Structure and Drafting of Standardizing Documents*.

Please note some contents of this Document are not involved patents. The issuing agency of this Document shall not assume the responsibility to identify these patents.

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Introduction

This Document outlines the requirements for carbon footprint accounting for road vehicle products arose from accounting principles, quantification methods, and carbon footprint reporting. It is expected to achieve the following:

- Provide quantification requirements for the carbon footprint of road vehicle products;
- Provide a standardized technical template for quantifying the carbon footprint of road vehicle products;
- Provide information for product research and development, technological improvements, product carbon footprint performance tracking and communication for road vehicles;
- Prevent the transfer of carbon emissions from one stage of the road vehicle lifecycle to another or between product lifecycles;
- Provide a better understanding of the carbon footprint of road vehicle products to identify potential opportunities for carbon emission reduction;
- Promote the low-carbon economic and sustainable development of the road vehicle industry;
- Improve the credibility, consistency, and transparency of carbon footprint quantification and reporting for road vehicle products;
- Facilitate the assessments of alternative product design and procurement plans, production and manufacturing methods, raw material selection, transportation, recycling, and other end-of-life stages;
- Promote the development and implementation of carbon emission management strategies and plans throughout the road vehicle product lifecycle, and timely identify low-carbon supply chains;
- Provide a basis for relevant decision-makers to determine more low-carbon road vehicle technology routes;
- Provide reliable carbon footprint information for road vehicle products.

Greenhouse Gases – Quantitative Methods and Requirements of Product Carbon Footprint – Road Vehicle Products

1 Scope

This Document specifies the quantification objectives, quantification range, list analysis, impact assessment, result explanation, product carbon footprint reporting, and product carbon footprint declaration for road vehicle products.

This Document applies to the accounting and reporting of carbon emissions from complete vehicles, trailers, motorcycles, components, and materials. Other types of products may refer to this Document for implementation.

2 Normative References

The provisions in following documents become the essential provisions of this Document through reference in this Document. For the dated documents, only the versions with the dates indicated are applicable to this Document; for the undated documents, only the latest version (including all the amendments) is applicable to this Document.

GB/T 8170-2008 Rules of rounding off for numerical values & expression and judgement of limiting values

GB/T 24067 Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification

GB/T 26989 Automobile recovery - Terminology

ISO 14026:2017 Environmental labels and declaration – Principles, requirements and guidelines for communication of footprint information

3 Terms and Definitions

For the purposes of this Document, the terms and definitions given in GB/T 24067, GB/T 26989 and the following apply.