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GB

NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 46011.2-2025

Road vehicle - General requirements for greenhouse gas management - Part 2: Carbon footprint labels of road vehicle products

道路车辆 温室气体管理通用要求 第 2 部分:产品碳足迹标识

Issued on: August 01, 2025 **Implemented on: February 01, 2026**

Issued by: State Administration for Market Regulation;
Standardization Administration of the People's Republic of China.

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Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020, *Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents*.

This document is Part 2 of GB/T 46011 *Road vehicle - General requirements for greenhouse gas management*. The following parts have been issued under GB/T 46011:

-- Part 1: Terms and definitions;

-- Part 2: Carbon footprint labels of road vehicle products.

Please note that some of the contents of this document may involve patents. The issuing organization of this document is not responsible for identifying patents.

This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This document shall be under the jurisdiction of National Technical Committee of Auto Standardization (SAC/TC 114).

Drafting organizations of this document: China Automotive Technology and Research Center Co., Ltd., Beijing Catarc Automobile Technology Development Co., Ltd., Zhejiang Geely Holding (Group) Co., Ltd., Chongqing Changan Automobile Co., Ltd., CALB Group Co., Ltd., Contemporary Amperex Technology Co. Limited, Heilongjiang Xinda Chemical New Materials Co., Ltd., Hefei Guoxuan High-Tech Power Energy Co., Ltd., Volkswagen (China) Investment Co. Ltd., Guangdong Brunp Recycling Technology Limited, China Automotive Parts Inspection Center (Ningbo) Co., Ltd., Hebei University of Technology, CATARC Huacheng Certification (Tianjin) Co., Ltd., Toyota Motor (China) Investment Co., Ltd., SAIC-GM-Wuling Automobile, Suzhou Inovance Automotive Co., Ltd., Ningde Bangpu Recycling Technology Co., Ltd., BMW China Services Ltd., Pan Asia Technical Automotive Center Co., Ltd., SAIC Volkswagen Automotive Co., Ltd., Changan Ford Motor Co., Ltd., FAW-Volkswagen.

Main drafters of this document: Zhang Tongzhu, Liu Shaohui, Lai Xinxue, Zheng Tianlei, Zhao Mingnan, Wang Xiaoxia, Zhou Dayong, Wang Zhibai, Tian Zhihong, Pan Xuexing, Yang Xin, Chen Min, Cong Longze, Yu Haijun, Cui Chen, Li Jing, Liu Jing, Yang Ruicheng, Wu Jiali, Chu Jiangwei, Wang Liyao, Jin Yuming, Liu Zhipeng, Fu Li, Deng Jiahui, Bai Mingrui, Guan Yunfei, Zheng Jian, Jiang Hongxia, Gao Yuan, Wang Ruoxin, Sun Yingying, Zhang Chikun, Lu Yuliang, Wang Qin, Ma Liya, Wang Yongguo.

Introduction

As a major sector of global energy consumption and greenhouse gas emission, the low-carbon development of the road vehicle industry is a key link in addressing climate change and achieving sustainable development goals. In recent years, as the international community has attached increasing importance to greenhouse gas emission reduction, countries have successively introduced laws and policies to promote the green and low-carbon transformation of the road vehicle industry. The carbon footprint labels of road vehicle products, as an effective environmental management tool for product carbon footprint management, plays an extremely important role in promoting the establishment of a low-carbon assessment and low-carbon procurement system based on the entire industry chain in the road vehicle industry, promoting the decomposition of carbon footprint indicators at each stage of the product life cycle of road vehicles and the formation of a collaborative management mechanism for carbon footprint reduction, and guiding low-carbon production and low-carbon consumption. Against this backdrop, standardizing the content, data, and requirements for carbon footprint labels of road vehicle products has become a fundamental task for ensuring the consistency of the standard system, promoting technical exchanges, and regulating industry management.

GB/T 46011, *Road vehicle - General requirements for greenhouse gas management* is proposed to consist of five parts.

-- Part 1: Terms and definitions. The aim is to systematically integrate the professional terminology related to greenhouse gas management in the industry, and to clarify the definition, scope of application and interrelationship of each term.

-- Part 2: Carbon footprint labels of road vehicle products. The aim is to guide low-carbon production and low-carbon consumption in the industrial chain and improve the overall level of greenhouse gas management in China's automotive industry.

-- Part 3: Carbon footprint data format specifications of road vehicle products. The aim is to build a standardized and structured data representation system to ensure the consistency and comparability of carbon footprint data from different companies, and to improve the universality and credibility of industry carbon footprint data.

-- Part 4: Zero-carbon factory construction standards. The aim is to clarify the technical path and management requirements for the construction of zero-carbon factories for road vehicles, guide enterprises to build a low-carbon and clean production system, and help the industry achieve the goals of green manufacturing and zero-carbon transformation.

-- Part 5: Carbon footprint verification standards of road vehicle products. The aim is to standardize the qualifications of verification agencies, verification procedures and data verification standards, ensure the authenticity and reliability of product carbon footprint information, and provide an effective basis for carbon footprint of a product, market supervision and industry decision-making.

By clarifying the content and format of carbon footprint labels of a product, this document helps all parties reach a consensus on greenhouse gas emission management, reduce misunderstandings and deviations, improve management efficiency and quality, guide low-carbon production and consumption across the industry chain, and assists the road vehicle industry in achieving greenhouse gas emission reduction targets and sustainable development.