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

GB/T 46531-2025

**Carbon dioxide emission accounting methodology for
commercial road and waterway transport vehicles**

公路水路营业性运输工具碳排放核算方法

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the Ministry of Transport of the People's Republic of China. This document was drafted by: China Academy of Transportation Sciences, China Planning and Research Institute of the Ministry of Transport, China Automotive Data Co., Ltd., and Beijing Zhongjiaoxing. Lu Information Technology Co., Ltd., Beijing EHL Information Technology Co., Ltd., Beijing Didi Infinite Technology Development Co., Ltd., Zhejiang Transportation Vocational and Technical College. The main drafters of this document are: Fang Hai, Shang Zandi, Yu Danyang, Hu Xiyuan, Xia Jing, Lin Chenggong, Lü Yang, Wang Shan, Wang Wei, Wang Fengfeng, and Chen Zhehao. Huang Xiaofan, Li Hehua, Wu Rui, Li Yue, Ren Huanhuan, Chen Chuan, Jiang Tian, Wen Jieyu, Liang Minyan, Zhang Jicai, Wu Xiaopeng, Pang Jimin, Guo Shuran, Yao Zhonghua. Carbon emission accounting methods for commercial road and waterway transportation vehicles

1 Scope

GB/T 46531-2025 is the Chinese national standard covering counting the CO₂ of a truck or a barge - the fuel-based and the activity-based routes, the emission factors, the allocation between the consignments sharing a vehicle, and the data quality required of an operator's records. First edition, under the Ministry of Transport, with the ship intensity rating GB/T

46530-2025. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document specifies the boundaries of carbon emission accounting objects, carbon emission and intensity accounting methods for commercial road and waterway transportation vehicles, as well as the public... Carbon emission accounting methods and data sources for road, waterway, and urban passenger transport vehicles. This document applies to the accounting of carbon dioxide emissions generated by commercial road and waterway transport vehicles during fossil fuel combustion in a region. Carbon dioxide emission intensity.

Note. Commercial road and waterway transport vehicles include operating passenger vehicles, operating freight vehicles, inland and coastal passenger ships, inland and coastal cargo ships, and public buses and trolleybuses. Traditional taxis, ride-hailing services, and city ferries. Fossil fuels include non-renewable energy sources such as coal, oil, and natural gas.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document. JT/T 1340 Technical Requirements for Ship Energy Consumption Data Collection and Reporting

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Carbon dioxide emissions per unit of activity level.

3.2 Urban passenger transport vehicles such as public buses, trolleybuses, taxis, ride-hailing services, and urban ferries transport each The amount of carbon dioxide emitted by one passenger.

3.3 The carbon dioxide emissions per kilometer carried by operating passenger buses, inland waterway and coastal passenger ships for each passenger transported, or by operating freight trucks, inland waterway and... The amount of carbon dioxide emitted by a coastal cargo ship for every 1 ton of cargo transported per 1 km.

3.4 The amount of carbon dioxide emitted by each online ride-hailing service that completes a single online passenger booking.

4 Accounting Object Boundaries

4.1 General Requirements Based on the principle of the operating entity's registered location, the amount of carbon dioxide generated by commercial road and waterway transport vehicles in this region during the combustion of fossil fuels will be calculated.

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