ICS 13.020.10
CCS Z 04

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 46907-2025

Technical specification for the data quality management of greenhouse gas emissions in industrial enterprises

工业企业温室气体排放数据质量管理技术规范

Issued on: December 31, 2025 **Implemented on: July 1, 2026**

Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC

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Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting is scheduled. 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 by the Ministry of Ecology and Environment of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Carbon Emission Management (SAC/TC 548). This document was drafted by: China National Institute of Standardization, Beijing Normal University, Sinopec Carbon Industry Technology Co., Ltd., and Zhejiang Materials & Equipment Co., Ltd. Environmental Energy Co., Ltd., Chinese Research Academy of Environmental Sciences, Beijing University of Technology, University of Chinese Academy of Sciences, Offshore Oil Engineering Co., Ltd. Limited Liability Company, Beijing University of Science and Technology, Guangzhou Tinci Advanced Materials Co., Ltd. The main drafters of this document are. Zhang Lijia, Xu Bingsheng, Chen Bin, Ye Xiaodong, Li Lianming, Zhang Xiaoxin, Shang Huining, Gu Ke, Chen Wengang, and Qi Jinlong. Zhou Luli, Zhang Jingqiao, Yang Ming, Huo Shaowei, Zhang Yang, Huo Peng, Chen Jun, Song Zijian, Zhao Lei, Wang Saige, Wei Jiewen, Yu Baoyun, Liu Zicheng, Ying Yu. Greenhouse gas emission data quality management of industrial enterprises Technical Specifications

1 Scope

GB/T 46907-2025 is the Chinese national standard covering the quality of emissions data - the measurement and metering behind each activity figure, the calibration records, the calculation checks, the internal review and the documentation trail an auditor will follow. With emissions trading, a data quality failure is a financial and legal one. First edition, under

the Ministry of Ecology and Environment, with GB/T 32150-2025. It was issued on 31 December 2025 and has been in force since 1 July 2026, as a first edition. The document is under the responsibility of the Ministry of Ecology and Environment. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the greenhouse gas data management and emission data acquisition technologies related to greenhouse gas emission data quality management for industrial enterprises. Data acquisition, data quality management plan development, and data quality management plan improvement. This document applies to industrial enterprises conducting greenhouse gas emission data quality management.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. 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.

GB 17167 General Rules for the Configuration and Management of Energy Measuring Instruments in Energy-Using Units

GB/T 32150 General Rules for Greenhouse Gas Emission Accounting and Reporting by Industrial Enterprises

3 Terms and Definitions

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

3.1 Data quality management To standardize data quality management and effectively improve data quality, industrial enterprises are implementing measures for acquiring emission data and managing data quality. This involves a series of interconnected activities, such as the development of plans and the improvement of data quality management plans.

3.2 emission factor A coefficient characterizing greenhouse gas emissions per unit of production or consumption activity.

Note. Data includes carbon dioxide emission factor, carbon content, oxidation rate, etc.

3.3 data source Sources of data for greenhouse gas accounting.

Note. This includes the purchase quantity on the raw material settlement document, the amount of raw materials consumed on-site, and the lower heating value of fuel measured

by the company itself.

3.4 data flow Data quality management involves a series of workflows, including data monitoring, collection, statistics, accounting, and reporting.

3.5 data flow activity The data flow involves specific tasks such as data recording, chemical analysis, fuel sampling, data aggregation, emission calculation, and storage.

3.6 Risk identification The process of analyzing the possibility of omissions and errors in the data quality management process and classifying them according to the magnitude of the risk.