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

GB/T 44854-2024

**Requirements for equipment and management of energy
measuring instruments in logistics service provider**

物流企业能源计量器具配备和管理要求

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Types and scope of energy measurement	2
4.1 Types of energy measurement	2
4.2 Energy measurement scope	2
5 Energy metering equipment	2
5.1 Configuration principles	2
5.2 Equipment requirements	2
5.3 Confirmation of theoretical requirements	5
6 Management Requirements	5
6.1 Energy Measurement System	5
6.2 Energy measurement personnel	5
6.3 Energy Metering Instruments	6
12 Reference	13

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 the National Technical Committee for Standardization of Energy Fundamentals and Management (SAC/TC20). This document was prepared by the National Technical Committee on Energy Foundation and Management Standardization (SAC/TC20), the National Technical Committee on Logistics Standardization (SAC/TC269) This document was drafted by: China Federation of Logistics and Purchasing, China National Institute of Standardization, Sinotrans Limited, Yunyitong Technology Co., Ltd., Liaoning University of Science and Technology, China Southern Power Grid Carbon Asset Management (Guangzhou) Co., Ltd., Anshan Iron and Steel Group Co., Ltd., Beijing Institute of Standardization Institute, Inner Mongolia Shengbang Coal Preparation Co., Ltd., Material Energy Conservation Center, Shanghai Second Polytechnic University, Tianjin University, Henan Province Metrology and Testing Science Research Institute Institute, Fushun

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1 Scope

GB/T 44854-2024 sets the requirements for the provision and management of energy measuring instruments in logistics enterprises. It is one of the sector standards that make Chinese energy reporting possible: an enterprise cannot report or reduce what it does not meter, and a logistics business is a hard case, because its energy is spread across vehicle fleets, warehouses, cold stores, sorting centres and handling equipment, much of it mobile and none of it originally instrumented. The standard sets the types and scope of energy measurement, then the requirements for the provision of the instruments, which energy inputs and which consuming units must be metered and at what level of the enterprise, the accuracy classes required, and then the management: the installation and commissioning, the verification and calibration, the operation and maintenance, the records and the data collection, and the periodic review of the measurement system. It takes effect on 1 June 2025.

This document specifies the types and scope of energy metering in logistics enterprises, as well as the requirements for the deployment and management of energy metering equipment. This document applies to the deployment and management of energy metering equipment in logistics companies.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB 17167 General rules for the allocation and management of energy metering instruments in energy-consuming units

GB/T 18354 Logistics Terminology

3 Terms and definitions

The terms and definitions defined in GB 17167 and GB/T 18354 and the following apply to this document.

3.1 Energy accounting units under logistics enterprises.

3.2 celofenergyusing The basic production system under the secondary energy-consuming unit.

Note. Energy-consuming units refer to devices, systems, processes, sections, and similar energy-consuming equipment under centralized management, including but not limited to logistics fleets, transport vehicle management centers, Automated warehousing system, automated three-dimensional shelf system, loading and unloading area, automated sorting line, automated warehousing system and logistics information management system, etc.

3.3 Energy-consuming equipment whose internal energy consumption of one or more types is greater than or equal to the limit value and needs to undergo separate energy consumption assessment.

3.4 Energy measurement for settlement in and out of logistics enterprises.

3.5 Energy measurement for cost or consumption accounting of major secondary energy users.

3.6 Energy measurement for accounting of energy-consuming units and major energy-consuming equipment within secondary energy-consuming units.