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

GB/T 31347-2025

Replacing GB/T 31347-2014

**Technical requirements of measurement and verification of
energy savings - Communication room project**

节能量测量和验证技术要求 通信机房项目

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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. This document replaces GB/T 31347-2014 "Technical Requirements for Energy Saving Measurement and Verification of Communication Equipment Room Projects", and is consistent with GB/T 31347- Compared to.2014, aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope of application of the standard has been changed (see Chapter 1, Chapter 1 of the.2014 edition);
- b) Terms and definitions have been changed (see Chapter 3, Chapter 3 of the.2014 edition);
- c) The boundary diagram for the energy-saving renovation project of the communication equipment room has been deleted (see 4.1 in the.2014 version);
- d) The scope of project energy consumption statistics has been changed (see Chapter 4, Chapter 4 of the.2014 edition);
- e) The basic requirements have been changed (see Chapter 5, Chapter 5 of the.2014 edition);
- f) The method selection in the energy saving measurement and verification methods has been changed (see 6.1, 5.3 of the.2014 edition);
- g) The factors affecting energy consumption have been changed (see 6.2.1,

6.1.1 in the.2014 version);

h) Changes were made to data collection and measurement (see 6.2.6,

6.1.7 of the.2014 version);

1 Scope

GB/T 31347-2025 is the Chinese national standard covering proving that a data room retrofit actually saved energy - the baseline before the work and its adjustment for IT load and weather, the measurement boundary, the verification period, and the calculation that turns readings into a savings figure someone will be paid on. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 31347-2014.

This document specifies the boundary delineation and energy consumption statistics scope for energy-saving technology renovation projects in data centers and other communication equipment rooms. Enclosure, basic requirements, measurement and verification methods. This document applies to energy-saving renovations of data centers and other communication equipment rooms, as well as the measurement and verification of energy savings.

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.

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

GB/T 28750-2012 General Technical Rules for Energy Saving Measurement and Verification

GB 40879-2021 Energy Efficiency Limits and Energy Efficiency Grades for Data Centers

3 Terms and Definitions

The terms and definitions defined in GB/T 28750-2012, as well as the following terms and definitions, apply to this document.

3.1 communication room Locations where communication equipment and other information equipment are installed.

Note. This includes data centers, communication base stations, etc.

3.2 datacenter It consists of information equipment facilities (computer room), other infrastructure, information system hardware and software, information resources (data), personnel, and relevant regulations. An entity composed of institutions. [Source: GB 40879-2021, 3.1]

3.3 The sum of outgoing and incoming data throughput carried by information equipment within a certain period of time.

3.4 base period Used to compare and determine the energy savings of a project, and the time period before the implementation of energy-saving measures.

3.5 Statistical reporting period Used to compare and determine the energy savings of a project, and the time period after the implementation of energy-saving measures.