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

GB/T 36713-2018

**Energy management systems -- Energy baselines and energy
performance indicators**

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Standardization Administration**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the redrafting method to modify the use of ISO 50006.2014 "Energy management system using energy benchmarks and energy performance parameters

General Requirements and Guidelines for Measuring Energy Performance.

This standard has structural adjustments compared to ISO 50006.2014. Appendix A lists this standard and ISO 50006.2014.

The chapter number is compared to the list.

The main technical differences between this standard and ISO 50006.2014 and their reasons are as follows.

---About the normative reference documents, this standard has made technical adjustments to adapt to China's technical conditions, adjustments

The situation is reflected in Chapter 2, "Regulatory References", and the specific adjustments are as follows.

* Added references to GB 17167, GB/T 28749 and GB/T 28751.

--- Removed ISO 50006. In.2014, adjustment (3.1), base period (3.2), boundary (3.3), energy (3.4), energy consumption

(3.6), energy efficiency (3.7), energy use (3.11), facilities (3.12) terms and definitions, only reserved directly related to this standard

Important terms and definitions.

This standard also made the following editorial changes.

---Modified standard name;

--- In the body of this standard, do not use the "utility help box" expression, put the contents

of the "utility help box" into the body content

Or in the form of a table;

--- Added Appendix B (informative appendix) "Relationship between energy review output information and energy performance parameters and energy benchmarks" and Appendix D (informative appendix) "Determining and calculating relevant variables";

--- Removed ISO 50006..2014 Appendix E (informative appendix) "Monitoring and Reporting Energy Performance";

--- Modified Example 1 in Table E.1;

--- Removed references in ISO 50006.2014.

This standard was proposed by the National Energy Foundation and Management Standardization Technical Committee (SAC/TC20).

This standard is approved by the National Energy Foundation and Management Standardization Technical Committee Energy Management Sub-Technical Committee (SAC/TC20/SC3)

Return to the mouth.

This standard was drafted. China National Institute of Standardization, Shenzhen Huadeng International Certification Co., Ltd., China National Accreditation Service for Conformity Assessment,

China Classification Society Quality Certification Company, Shandong Energy Conservation Association, Dezhou Energy Conservation Supervision Detachment, Huazhong University of Science and Technology, Beijing Guojin Hengxin Management

Department Certification Co., Ltd., Beijing Guojian Lianxin Certification Center Co., Ltd., Beijing Zhongdian Power Enterprise Management Consulting Co., Ltd., China

museum.

Introduction

Energy benchmarks and energy performance parameters are core elements of GB/T 23331-2012, correct for energy benchmarks and energy performance parameters

Understanding and application are the key to understanding and mastering GB/T 23331-2012.

This standard is the supporting standard of GB/T 23331-2012. This standard can guide the organization how to meet GB/T 23331-2012

Relevant requirements regarding energy benchmarks and energy performance parameters.

This standard describes how to adopt the "energy benchmark (EnB)" and "energy performance".

Attribute Parameter (EnPI) quantitatively analyzes changes in energy performance and energy performance, and how to determine whether an organization has achieved its stated goals.

And whether the planning of energy performance measures is effective.

How does this standard determine relevant energy performance information, how to determine energy performance parameters, how to develop energy benchmarks, and how to use energy

Benchmarking and energy performance parameters, and how to maintain energy benchmarks and energy performance parameters establish a systematic approach.

Energy Management System Energy Benchmarks and Energy Performance Parameters

1 Scope

This standard establishes the principles and guidelines for the use of energy benchmarks (EnB) and energy performance parameters (EnPI).

This standard applies to any organization.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB 17167 Energy-using unit energy metering equipment management and general rules

GB/T 23331-2012 Energy Management System Requirements (ISO 50001:2011, IDT)

GB/T 28749 enterprise energy balance network diagram drawing method

GB/T 28751 Enterprise Energy Balance Table Preparation Method

3 Terms and definitions

The following terms and definitions as defined in GB/T 23331-2012 apply to this document. For ease of use, the following is repeated

Certain terms and definitions in GB/T 23331-2012.

3.1

Energy performance

Measurable results related to energy efficiency, energy use and energy consumption.

Note. Rewrite GB/T 23331-2012, definition 3.12.

3.2

Energy performance parameter energyperformanceindicator; EnPI

Determined by the organization to quantify the value or measure of energy performance.

Note. Energy performance parameters can be represented by simple magnitudes, ratios, or more complex models.

[GB/T 23331-2012, definition 3.13]

3.3

Energy benchmark energybaseline; EnB

Used as a quantitative reference for comparing energy performance.

Note 1. The energy benchmark reflects the energy use of a specific time period.

Note 2. The energy standard can be regulated by variables that affect energy use and energy consumption, such as production level, number of days (outdoor temperature), etc.

Note 3. The energy benchmark can also be used as a reference before and after the implementation of the energy performance improvement program to calculate the energy savings.

[GB/T 23331-2012, definition 3.6]

3.4

Baseline periodperiod

A specific time period used to compare energy performance with the reporting period (3.5).