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**CERTIFICATION AND ACCREDITATION INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

RB/T 123-2018

**Energy management systems - Certification requirements for
thermal production and supply
(English Translation)**

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Foreword

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

This standard is proposed and managed by the National Certification and Accreditation Administration.

This standard was drafted. Fangyuan Mark Certification Group Co., Ltd., Beijing Fengtai District Housing Management Center Heating Equipment Service, Beijing Heating Group, Beijing Zhongjian Association Certification Center Co., Ltd., Beijing Boda Development Thermal Co., Ltd., Beijing Huare Technology Development Co., Ltd.

the company.

Introduction

This standard is based on GB/T 23331-2012 "Energy Management System Requirements", combined with thermal production and supply enterprises energy use and management. Based on the actual situation and the characteristics of energy use, the specific requirements of the energy management system for thermal production and supply enterprises are proposed.

The production and supply of heat as referred to in this standard refers to the use of coal, oil, gas and other energy sources to produce steam and hot water through boilers and other devices.

Steam and hot water from purchased steam and hot water or other sources (such as geothermal energy conversion, solar energy conversion, waste heat recovery, etc.) the heat pipe network transports heat supply services to the heat users to maintain and manage the heating facilities.

See Appendix A for basic information on energy management in the thermal production and supply industries.

The purpose of this standard is to regulate the energy management process of thermal production and supply enterprises, and to adopt a systematic approach to thermal production.

And supply companies to achieve energy goals, improve energy efficiency and reduce energy consumption, reduce greenhouse gas emissions, and reduce energy Use cost to improve energy performance.

This standard does not stipulate specific energy performance guidelines for thermal production and supply companies, nor does it provide detailed management system design specifications.

This standard is the specific requirements of GB/T 23331-2012 "Energy Management System Requirements" in thermal production and supply enterprises, is the right Refinement of GB/T 23331-2012. This standard is used in conjunction with GB/T 23331-2012 "Energy Management System Requirements" to form a heat the certification basis for the production and supply of enterprise energy management systems.

Thermal production and supply companies may seek third-party certification bodies to certify their energy management systems in accordance with this standard.

I evaluate and self-declare, or as a reference for compliance verification of the operation of its energy management system.

Thermal production and supply companies can apply this standard in combination with quality, environmental, occupational health and safety management system standards.

Energy management system Thermal production and supply enterprise certification requirements

1 Scope

This standard specifies the certification requirements for thermal energy production and supply enterprise energy management systems.

This standard applies to the energy management system certification of thermal production and supply enterprises, and can be used for the establishment and implementation of thermal production and supply enterprises.

Maintaining and improving its energy management system can also serve as a basis for all parties to evaluate the energy management system of thermal production and supply enterprises.

The energy management activities of the high-temperature and high-pressure steam production and power generation process of the cogeneration enterprise, extracting the lower quality of the steam turbine the steam enters the first station of heating, and the heat management by the steam-water heat exchanger provides external heat management

activities applicable to this standard.

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 modified versions) applies to this document.

GB 17167 Energy-using unit energy metering equipment management and general rules
GB/T 23331-2012 Energy Management System Requirements GB/T 51161-2016 Energy consumption standards for civil buildings JGJ173 Heating Metering Technical Regulations
DL/T 904 Calculation method for technical and economic indicators of thermal power plants
DB11/1150 heating boiler integrated energy consumption limit

3 Terms and definitions

The following terms and definitions as defined in GB/T 23331-2012 and GB/T 51161-2016 apply to this document.

Cogeneration A thermal power plant produces a combined production of electrical energy and available thermal energy.

Heating area area of heating the building area of the heating building.

High temperature water high-temperature hot water Hot water with a water temperature exceeding 100 °C.

Heating system A general term for a system that supplies heat to a thermal user through a heat source through a heat source.