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

RB/T 116-2014

**Energy managment systems. Certification requirements for
electric power enterprise
(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 the specific requirements of GB/T 23331-2012 "Energy Management System Requirements" in the power industry, is for GB/T 23331 Refined.

This standard is one of the series of standards for energy management system certification.

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

This standard was drafted. China Light and Power (Beijing) Certification Center, Fangyuan Mark Certification Group Co., Ltd., Great Wall (Tianjin) Quality Assurance Xin, Guangdong Zhongjian Certification Co., Ltd., Datang Huangdao Power Generation Co., Ltd., Guangdong Yudean Jinghai Power Generation Co., Ltd.

Introduction

As a basic industry of the national economy, power industry companies provide the necessary electrical energy for industrial and agricultural production and people's lives.

The industry shoulders the important responsibility of advanced development, safe and reliable operation, and maintaining harmonious and stable development of society and economy. It is also the weight of China's energy consumption.

Point industry, Appendix A provides the basic situation of energy management in the power industry.

The purpose of this standard is to regulate the energy management process of power companies and adopt a systematic approach to enable power companies to achieve energy goals.

Improve energy performance. At the same time, this standard is the basis for the certification body to provide uniform specifications when conducting power management

system certification for power companies.

GB/T 23331-2012 "Energy Management System Requirements" stipulates the requirements of energy management systems applicable to various organizations, for all types of the organization establishes, implements, maintains and improves the energy management system to provide system requirements.

This standard is based on GB/T 23331-2012, combined with the actual situation of energy use and energy conservation management in the power industry. This standard the basic framework is consistent with GB/T 23331-2012. Within the basic framework, a proposal for energy management for power companies is proposed.

Body requirements.

Power companies can apply this standard in combination with quality, environmental, occupational health and safety management systems.

This standard does not stipulate specific energy performance standards for power companies, nor does it provide detailed management system design specifications.

Power companies may seek certification from third-party certification bodies for their energy management systems in accordance with this standard. They may also conduct self-evaluation and self-development.

Refer to this standard when declaring and seeking the confirmation of compliance by interested parties.

Energy Management System Power Enterprise Certification Requirements

1 Scope

This standard stipulates the requirements for the certification of energy management systems by coal-fired power generation enterprises and power grid enterprises, and stipulates the requirements for coal-fired power generation enterprises and electricity.

The basic requirements for the implementation of system management for energy use and consumption of net enterprises, considering the factors affecting the energy performance of coal-fired power generation enterprises and grid enterprises the basic requirements for the energy management system of coal-fired power generation enterprises and power grid enterprises are clarified.

This standard applies to the energy management system certification of coal-fired power generation enterprises and power grid enterprises, and is applicable to coal-fired power generation enterprises and power grid enterprises.

Establishing, implementing, maintaining and improving its energy management system is also applicable to the assessment of energy management of coal-fired power generation

enterprises and power grid enterprises as relevant parties.

The basis of the system. Other types of power generation enterprises (such as fuel, gas, hydropower, nuclear power, new energy and other power generation enterprises) refer to the implementation.

2 Normative references

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

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

GB 17167 General rules for the provision and management of energy metering units GB 21258 conventional coal-fired generating unit unit product energy consumption limit GB/T 21369 Energy measurement equipment provision and management requirements for thermal power generation enterprises GB/T 23331-2012 Energy Management System Requirements GB/T 28557 Supervision and evaluation criteria for main indicators of energy conservation and consumption reduction in power enterprises DL/T 255-2012 Technical Specifications for Energy Consumption Assessment of Coal-Fired Power Plants DL/T 686 power grid power loss calculation guidelines DL/T 448 energy metering device technical management procedures DL/T 904 Calculation method for technical and economic indicators of thermal power plants SD325 Power System Voltage and Reactive Power Technical Guidelines Interim Measures for Energy Conservation Assessment and Review of Fixed Asset Investment Projects (National Development and Reform Commission Order No. 6 of 2010)

3 Terms and definitions

The following terms and definitions established in GB 21258, DL/T 904, GB/T 23331-2012 apply to this document.

Power supply coal consumption rate $\text{coalconsumptionforsupplypower}$ After deducting self-use electricity, the power plant supplies the standard coal quantity consumed by $1\text{kW}\cdot\text{h}$ of electricity to the grid, in units of $\text{g}/(\text{kW}\cdot\text{h})$.

Power generation coal consumption rate $\text{coalconsumptionforpowergeneration}$ the standard amount of coal consumed per $1\text{kW}\cdot\text{h}$ of electricity generated by the power plant, in $\text{g}/(\text{kW}\cdot\text{h})$.

Power plant power consumption rate $\text{plantconsumptionrate}$ the percentage of self-use electricity and power generation in the power production process of power plants.

Comprehensive water consumption rate the amount of fresh water required for the power generation of a thermal power plant (excluding the rate of reuse of water), in $\text{g}/(\text{kW}\cdot\text{h})$.