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

RB/T 103-2013

**Energy management systems. Certification requirements for
iron and steel industry
(English Translation)**

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Table of Contents

- Foreword
- Introduction
- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Steel enterprise energy management system requirements
 - 4.1 General requirements
 - 4.2 Management responsibilities

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" applied in steel enterprises, is GB/T 23331 Refinement.

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

This standard was drafted. Beijing Guojin Hengxin Management System Certification Co., Ltd., China Metals Society, National Energy Conservation Center, and Iron and Steel Research Institute, Baoshan Iron and Steel Co., Ltd., Taiyuan Iron and Steel (Group) Co., Ltd., Shandong Iron and Steel Group Co., Ltd., Angang Group, Handan Iron and Steel Group Co., Ltd., Jiangsu Shagang Group Co., Ltd., Shougang Corporation, China Classification Society Quality Certification Company.

Introduction

The iron and steel industry is one of the important raw material industries in China and a key industry for energy consumption in China. Appendix A provides the steel industry.

Basic situation of energy management.

The purpose of this standard is to regulate the energy management process of steel enterprises, aiming to adopt a systematic approach to promote China's steel enterprise festival.

It can manage continuous optimization, continuous improvement of energy efficiency, continuous improvement of energy conservation work, and promote the scientific

development of China's steel industry. At the same time, this standard is the basis for the certification body to provide a unified and standardized basis for the energy management system certification of steel enterprises.

GB/T 23331-2012 specifies the requirements for energy management systems applicable to various organizations, establishing, implementing and maintaining for various organizations.

And improving the energy management system provides system requirements. This standard is based on GB/T 23331-2012, for the energy of the steel industry the characteristics, principles and actual conditions of management have been compiled. The basic framework of this standard is consistent with GB/T 23331-2012, in the basic framework, specific requirements for energy management for steel companies were proposed. This standard should be used in conjunction with GB/T 23331-2012.

It also constitutes the basis for the implementation of energy management system certification for the steel industry.

The main production and energy use processes of iron and steel enterprises include. iron ore mining, beneficiation, sintering, pellets, coking, ferroalloys, iron making, steel making, rolling Steel, steel surface treatment, steel deep processing, etc. This standard applies to all steel companies of different sizes and types.

The successful implementation of this standard depends on the commitment of the various functional levels of the enterprise, especially the commitment of top management. Standard user needs in view of the characteristics of energy management in iron and steel enterprises, the relationship between the processes of energy management systems is systematically considered. Figure 1 shows the steel companies can Source management system operation mode diagram.

Figure 1 Operation mode of energy management system of iron and steel enterprises

The purpose of establishing an energy management system for steel companies is to reduce energy consumption, improve energy efficiency, and continuously improve their energy management.

Performance. Achieving the above objectives depends on steel companies actively adopting advanced energy management methods, best energy-saving practices, and advanced and applicable Energy-saving technologies, processes, equipment and products to optimize product structure and energy structure.

Although this standard does not specify the specific energy performance level requirements of steel companies, need to clarify relevant standards or guidelines. Standard the requirements for other management systems are not included, but considering that energy management is inseparable from other aspects of management, companies can the requirements of the system are coordinated and integrated with other management

systems.

Energy management system Steel enterprise certification requirements

1 Scope

This standard stipulates the certification requirements for energy management systems of iron and steel enterprises, and gives the requirements for energy management systems of steel enterprises and energy.

The basic requirements for system management are implemented using and energy consumption.

This standard applies to the energy management system certification of steel companies, which can be used to establish, implement, maintain and improve energy management in steel enterprises.

The system can also be used as a basis for evaluating the energy management system of steel companies.

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 21256-2007 Energy consumption limit for unit products of major processes in crude steel production
GB 21342-2008 Coke unit product energy consumption limit
GB/T 23331-2012 Energy Management System Requirements
National Development and Reform Commission of the National Key Energy-saving Technology Promotion Catalogue

3 Terms and definitions

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

Energy Performance Benchmark
Energyperformancebenchmark refer to the advanced levels and practices of energy consumption and energy efficiency determined by comparable activities of the same type.

4.1 General requirements

4.1.1

Steel enterprises should meet the requirements of 4.1 in GB/T 23331-2012.

4.1.2

Steel companies should define the scope and boundaries of the energy management system based on their management responsibilities and geographic areas. Once the scope and boundaries are Major production systems, auxiliary production systems, ancillary production systems, and other indistinguishable facilities, equipment, systems, the process must be included in the scope of management. When the steel company determines the scope and boundaries of the energy management system, refer to Appendix A, A.3. steel for the basic situation of energy management in the iron industry, refer to Appendix A.

4.2.1 Top management

Steel enterprises should meet the requirements of 4.2.1 and the following requirements in GB/T 23331-2012.

- a) Responsible for the organization and implementation of energy planning that is compatible with the overall development plan of the enterprise and the continuous improvement of corporate energy performance;
- b) Establish an energy efficiency target responsibility system and related incentive policies and binding mechanisms;