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

RB/T 106-2013

Replacing RB/T 106-2013

**Energy management systems - Requirements for certification
on cement plants
(English Translation)**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting:

This document is the specific requirements of GB/T 23331-2020 "Energy Management System Requirements and Use Guidelines" in the cement industry:

This document replaces RB/T 106-2013 "Energy Management System Certification Requirements for Cement Enterprises": Compared with RB/T 106-2013, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Modified some terms and definitions (see Chapter 3, Chapter 3 of the:2013 edition);
- b) Added the environment in which cement enterprises operate and the needs and expectations of stakeholders (see 4.1 and 4.2);
- c) Added relevant contents that should be considered in the scope of the energy

management system (see 4.3);

d) Added responsibilities of the energy management team (see 5.3);

e) Added appropriate measures that cement enterprises should take when planning to respond to risks and opportunities (see 6.1);

f) Modified the requirements for the content of energy assessment criteria for cement enterprises when conducting energy assessment (see 6.3, 4:4:3 of the:2013 edition);

g) Modified the professional requirements for energy performance parameters and energy benchmarks of cement enterprises (see 6.4 and 6:5, 4:4:4 and 4:4:5 of the:2013 edition);

h) Added requirements related to energy data collection plan (see 6.6);

i) Modified the resource content of cement enterprises for energy management system (see 7.1, 4:5 of the:2013 edition);

j) Modified the professional requirements for the operation control of the energy management system of cement enterprises (see 8.1, 4:5:5 of the:2013 edition);

k) Added consideration of continuous improvement (see 10.2):

1 Scope

This document specifies the requirements for an energy management system for cement companies:

This document is applicable to cement enterprises to establish, implement, maintain and improve their energy management system, and also applies to the energy management of cement enterprises:

System certification can also serve as a basis for relevant parties to evaluate the energy management system of cement enterprises and for cement enterprises to self-evaluate their energy management system:

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document:

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document:

GB/T 4131 Nomenclature and terminology of cement GB 16780 Energy consumption limit per unit product of cement GB 17167 General rules for the allocation and management of energy metering instruments in energy-consuming units GB/T 21372 Portland cement

clinker GB/T 23331-2020 Energy Management System Requirements and Usage Guide
GB/T 35461 Requirements for the deployment and management of energy metering
equipment in cement production enterprises GB 50443 Cement Plant Energy Saving
Design Code GB 50588 Design standard for waste heat power generation in cement plants

3 Terms and definitions

As defined in GB/T 4131, GB 16780, GB 17167, GB/T 21372, GB/T 23331-2020, GB 35461 and the following the terms and definitions apply to this document:

The process consists of the following steps, starting from the entry of raw materials into production to the metering and packaging of finished cement (clinker) or the bulk shipment of cement:

Process and equipment facilities:

Note 1: The production system of cement enterprises mainly includes raw material crushing, raw material preparation, clinker burning, cement making, packaging (bulk) and, where applicable, co-processing:

Note 2: Cement grinding station does not include raw material preparation and clinker burning process:

The process and equipment mainly consists of raw material storage, raw material crushing and drying, raw material grinding, raw material warehousing and material transportation:
facility:

The process and equipment facilities mainly consist of coal powder preparation, clinker calcination (clinker burning), clinker storage and material transportation:

The process mainly consists of raw material yard, raw material crushing and drying, cement grinding, cement storage, cement packaging (bulk) and material transportation: