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

RB/T 112-2023

Replacing RB/T 112-2014

**Energy management system - Requirements for certification on
chemical fertilizer and methanol 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 for the application of GB/T 23331-2020 "Energy Management System Requirements and Usage Guide" in fertilizer and methanol enterprises:

This is a refinement of GB/T 23331-2020:

This document replaces RB/T 112-2014 "Energy Management System Certification Requirements for Fertilizer and Methanol Enterprises":

Compared with the previous version, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) The structure, core technical elements, common terms and definitions of GB/T 23331-2020 are adopted;
- b) Added the environment in which the enterprise is located (see 4.1);
- c) added measures to address risks and opportunities (see 6.1);
- d) Added planning for energy data collection (see 6.6);
- e) Added improvements (see 10.3);
- f) The scope of the management system has been changed (see 4.3, 4:1:2 of the:2014 edition);
- g) Changed the energy review (see 6.3, 4:4:3 of the:2014 edition);
- h) The energy performance parameters have been changed (see 6.4, 4:4:5 of the:2014 edition);

- i) Changed the energy benchmark (see 6.5, 4:4:4 of the:2014 edition);
- j) Operational planning and control have been changed (see 8.1, 8:2, 8:3, 4:5:5, 4:5:6, 4:5:7 of the:2014 edition);
- k) Appendices A, B and C were modified;
- l) The terms and definitions have been changed (see Chapter 3, Chapter 3 of the:2014 edition);
- m) Management representative (see 4.2:2 of the:2014 edition) has been deleted:

1 Scope

This document specifies the energy management system requirements for fertilizer and methanol companies:

This document is applicable to fertilizer and methanol enterprises to establish, implement, maintain and continuously improve their energy management system:

Energy management system certification for methanol enterprises: Reference for other stakeholders to evaluate the energy management system of fertilizer and methanol enterprises:

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 2589 General rules for calculation of comprehensive energy consumption GB 17167 General rules for the allocation and management of energy metering instruments in energy-consuming units GB/T 21367 Requirements for the allocation and management of energy metering instruments in chemical enterprises GB/T 23331-2020 Energy Management System Requirements and Usage Guide

3 Terms and definitions

The terms and definitions defined in GB/T 23331-2020 and GB/T 2589 apply to this document:

4 Organizational environment

4.1

Understanding the organization and its environment

4.1.1

Enterprises should comply with the requirements of 4:1 of GB/T 23331-2020:

4.1.2

The enterprise shall identify the internal and external factors (positive or negative) that affect its energy performance and energy management system, such as the following factors:

a) External factors:

---National, local, industry, and superior unit goals, requirements, or standards: For example: energy control indicators issued by the competent authorities, unit Product energy consumption limit standards, elimination of outdated processes and high-energy-consuming equipment, etc.;

--- The cost or availability of the main energy sources used, the use of renewable energy, etc.;

--- Environmental and climate factors, such as high temperature, sudden weather, etc.;

---Others: Such as the impact of global greenhouse gases, carbon emissions trading, carbon peak, carbon neutrality, etc:

b) Internal factors:

---Mission, vision and development strategy;

---Human resources, finance, energy costs, etc.;

---The degree of perfection of the energy management system;

--- Emergency plans to deal with energy supply disruptions;

--- Current status of production process and application of energy-saving technology;

---other: