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

RB/T 113-2023

Replacing RB/T 113-2014

**Energy management system - Requirements for certification on
chlor-alkali and carbide 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 Use Guidelines" in chlor-alkali and calcium carbide enterprises:

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

This document replaces RB/T 113-2014 "Energy Management System Certification Requirements for Chlor-Alkali and Calcium Carbide Enterprises" and Compared with RB/T 113-2014, 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) Management representative has been deleted (see 4.2:2 of the:2014 edition);
- d) added measures to address risks and opportunities (see 6.1);
- e) Added planning for energy data collection (see 6.6);
- f) Added improvements (see 10.3);
- g) The scope of the management system has been changed (see 4.3, 4:1:2 of the:2014 edition);
- h) Changed the energy review (see 6.3, 4:4:3 of the:2014 edition);
- i) The energy performance parameters have been changed (see 6.4, 4:4:5 of the:2014 edition);
- j) Changed the energy benchmark (see 6.5, 4:4:4 of the:2014 edition);
- k) Changes have been made to operational planning and control (see 8.1, 8:2, 8:3, and 4:5:5, 4:5:6, and 4:5:7 of the:2014 edition):

1 Scope

This document specifies the energy management system requirements for chlor-alkali and calcium carbide companies:

This document is applicable to chlor-alkali and calcium carbide enterprises to establish, implement, maintain and continuously improve their energy management system, and also

applies to fertilizer and methyl methacrylate 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 17167 General rules for the allocation and management of energy metering instruments in energy-consuming units GB 21257 Limits of energy consumption per unit product of caustic soda GB 21343 Energy consumption limit per unit product of calcium carbide 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 GB 30527 Energy consumption limit per unit product of polyvinyl chloride resin

3 Terms and definitions

The terms and definitions defined in GB/T 23331-2020, GB 21257, GB 21343 and GB 30527 apply to this document:

4: The environment in which the enterprise is located

4.1 Understanding the enterprise 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 include:

---National, local, industry, and superior unit goals, requirements, or standards, such as: 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 climatic 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 include:

---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;