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GB 21258-2017

Replacing GB 21258-2013

The norm of energy consumption per unit product of general coal-fired power set

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB 21258-2013 “The norm of energy consumption per unit product of general coal-fired power set”. As compared with GB 21258-2013, the main changes are as follows:

- ADD the limit level of energy consumption per unit of product (SEE Chapter 4);
- DELETE the “energy consumption advanced value” and “energy management and measures”;
- MODIFY the energy consumption limits and energy consumption access values indicators (SEE Chapters 4, clause 5.1 and 5.2; clause 4.1, 4.2 and 4.3 of 2013 version);
- ADJUST the correction factors of the impact factors of the limit level of energy consumption per unit of product (SEE 5.3).

This standard was proposed by the National Development and Reform Commission Resource Conservation and Environmental Protection Division, and the National Energy Administration Energy Conservation and Technology Equipment Division.

This standard shall be under the jurisdiction of the National Standardization Management Committee.

The drafting organizations of this standard: China Electricity Enterprise Association, Guodian Science and Technology Research Institute, China International Engineering Consulting Company, China Huaneng Group Corporation, China Huadian Corporation, Datang International Power Generation Co., Ltd., North China Electric Power Research Institute Co., Ltd., Guangdong Electric Power Research Institute Energy Technology Co., Ltd., State Grid Hebei Electric Power Company Electric Power Research Institute.

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This Standard replaces the standard previously issued as follows:

- GB 21258-2007, GB 21258-2013.

The limit value of the energy consumption per unit product of the power set as specified in this standard shall be implemented from January 1, 2019.

The norm of energy consumption per unit product of general coal-fired power set

1 Scope

This standard specifies the limit level, technical requirements, statistical scope and calculation method for energy consumption per each unit of power supply from the general coal-fired power set (hereinafter referred to as “energy consumption”).

This standard applies to the calculation and assessment of the energy consumption of the general coal-fired power enterprise as well as the energy consumption control for the newly built machine unit.

This standard does not apply to cogeneration units, circulating fluidized bed units, and resource comprehensive utilization units.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this Standard.

GB/T 2589 General principles for calculation of the comprehensive energy consumption

GB/T 12723 General principles for establishing allowance of energy consumption per unit throughput

GB 13223 Emission standard of air pollutants for thermal power plants

DL/T 904 Calculating method of economic and technical index for thermal power plant

DL/T 1365 Terminology of energy saving of electric power

3 Terms and definitions

The terms and definitions as defined in GB/T 12723 and DL/T 1365 and the following terms and definitions are applicable to this document.

3.1

Net coal consumption

During the statistical period, the amount of standard coal consumed by supplying 1 kW • h energy from the machine unit.

[Definition 5.3.1.19 of DL/T 1365-2014]

3.2

Load coefficient of a unit

Output coefficient of a unit

During the statistical period, the ratio of the total output power of the unit machine unit to the rated power of the machine unit, that is, the ratio of the utilization hours of the machine unit to the running hours of the machine unit.

[Definition 4.2.12 of DL/T 1365-2014]

3.3

Meet the emission standard

The concentration of soot, sulfur dioxide, nitrogen oxides, mercury and its compounds in the flue gas of the general coal-fired power set, and the blackness of the flue gas comply with the emission requirements of GB 13223 and local standard.

3.4

Ultra low emission

Under the condition of 6% of the baseline oxygen content, the emission concentration of soot, sulfur dioxide and nitrogen oxides in the standard dry flue gas of the general coal-fired power set is not higher than 10 mg/m³, 35 mg/m³ and 50 mg/m³, respectively.

4 Energy consumption limit level

The limit level of the energy consumption per unit product of the general coal-fired power set is as shown in Table 1, wherein the level 1 energy consumption is the lowest.

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