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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 33630-2025

Replacing GB/T 33630-2017

**Wind energy generation systems - Specification for corrosion
protection of offshore wind turbines**

风能发电系统 海上风力发电机组防腐规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 33630-2017 "Corrosion Protection Specification for Offshore Wind Turbine Generators". Compared with GB/T 33630-2017, except for... Aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope of application has been changed (see Chapter 1, Chapter 1 of the.2017 edition);
- b) The term and definition of "vapor phase corrosion inhibitor" have been added (see 3.4);
- c) The corrosive environment zoning has been changed (see 4.1.1,.2017 version 4.1.1);
- d) The zoning of corrosive environments for offshore wind turbines has been revised (see Table 1,.2017 version of Table 1);
- e) The overall corrosion protection measures have been changed (see 4.2,.2017 edition of 4.2);
- f) The main parameters for controlling the corrosive environment have been changed (see Table 2,.2017 version);
- g) The protective measures for steel components have been changed (see 6.1, 7.1 in the.2017 edition);
- h) The rust removal requirements for steel components have been changed (see 6.2.4, 7.2.4 in the.2017 edition);
- i) The coating configuration for paint protection has been changed (see 6.3.1.1, 7.3.1.1 in the.2017 version);

1 Scope

GB/T 33630-2025 is the Chinese national standard covering protecting an offshore turbine - the corrosivity zones from the buried foundation through the submerged and splash zones to the atmosphere above, the coating systems and the cathodic protection for each, the corrosion allowance, and the inspection at sea. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 33630-2017.

This document specifies the general requirements for offshore wind turbine generator sets, corrosion environment control, steel components, composite material parts, and electrical equipment. Protection, maintenance, and inspection of group storage. This document applies to the corrosion protection design, construction, acceptance, and storage of horizontal axis offshore wind turbine generator sets (hereinafter referred to as "generator sets") and their components. and operation and maintenance. This document does not apply to structures below the tower of offshore wind turbine generators.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For

references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document. GB/T 470 Zinc Ingots

GB/T 1732 Test method for impact resistance of paint film

GB/T 1733 Test method for water resistance of paint film

GB/T 1740 Test method for resistance to damp heat of paint film

GB/T 1766 Rating Method for Aging of Paint and Varnish Coatings

GB/T 1768 Determination of abrasion resistance of paints and varnishes - Rotating rubber grinding wheel method

GB/T 1865 Paints and varnishes - Artificial weathering and artificial radiation exposure - Filtered xenon arc radiation

GB/T 2423.4 Environmental testing of electrical and electronic products - Part

3 Determination of particle size composition of micro powders P240~P2500

GB/T 9274 Determination of resistance to liquid media for paints and varnishes

GB/T 9278 Temperature and humidity for conditioning and testing of coating specimens

GB/T 9793-2012 Thermal spraying of metals and other inorganic coatings, zinc, aluminum and their alloys

GB/T 10125 Corrosion test under artificial atmosphere - Salt spray test