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

GB/T 33346-2025

Replacing GB/T 33346-2016

**Busbar trunking systems (compact insulated busways) for wind
power**

风力发电导电轨（密集型母线槽）

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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 replaces GB/T 33346-2016 Wind Power Conductor Rail (Dense Busbar Duct) and is consistent with GB/T 33346-2016.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Changed the scope (Chapter 1, Chapter 1 of the 2016 edition);
- Changed the terms and definitions of wind power conductor rails (see 3.1, 3.1 of the 2016 edition);
- Deleted some terms and definitions (see 3.2 to 3.8 of the 2016 edition);
- Changed the normal use conditions (see 4.1, 4.1.1.1 to 4.1.1.3 of the 2016 edition);
- Added sea surface pollution level (see 4.1.2);
- Deleted the rated frequency requirements in the rated data (see 5.1.4 of the 2016 edition);
- Changed the requirements for insulating materials (see 6.2.3, 5.3.3 of the 2016 edition);

- Changed the dielectric performance requirements and dielectric performance verification methods (see 7.1, 8.4.7, 6.4.7 of the 2016 edition);
- Added corrosion resistance verification and insulation material performance verification (see 8.4.1, 8.4.2);
- Added fungus resistance test (see 8.4.12);
- Added other tests for offshore wind power bus duct (see 8.4.13);
- Added offshore wind power bus duct related tests (see Appendix A).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed by the China Electrical Equipment Industry Association.

This document is under the jurisdiction of the National Technical Standardization Committee for Low-voltage Complete Switchgear and Control Equipment (SAC/TC266).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2016 as GB/T 33346-2016;
- This is the first revision.

1 Scope

This document specifies the use conditions, interface characteristics, structural requirements, Performance requirements, test verification, routine inspection, nameplate and marking, packaging, transportation and storage methods, etc.

This document applies to wind turbine towers or wind turbine cabins with rated voltage AC not exceeding 1000V and frequency of 50Hz or 60Hz. Wind power bus duct.

2 Normative references

GB/T 2423.4

GB/T 2423.10

GB/T 2423.16

GB/T 2423.17

GB/T 4208

GB/T 7251.1-2023

GB/T 7251.6-2015

GB/T 13384-2008

3 Terms and Definitions

For this document, the terms and definitions defined in GB/T 7251.1-2023 and GB/T 7251.6-2015 and the following terms and definitions apply.

3.1 busway

The bus duct, which is formed by covering the bare busbar with insulating material and placing it close to the channel casing, is used as a conductive rail for wind power generation.

4.1.1 Climate conditions

Wind power bus ducts conforming to this document are suitable for the climatic conditions in Table 1.