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

GB/T 18451.2-2025

Replacing GB/T 18451.2-2021

**Wind energy generation systems - Power performance
measurements of electricity producing wind turbines**

风能发电系统 风力发电机组功率特性测试

(English Translation)

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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 is Part 2 of GB/T 18451 "Wind Turbine Generator Sets". GB/T 18451 has already published the following parts.

---GB/T 18451.1 Design requirements for wind turbine generator sets;

---GB/T 18451.2 Power characteristic test of wind turbine generator set in wind power generation system.

This document replaces GB/T 18451.2-2021 "Power Characteristic Test of Wind Turbine Generator Sets" and is consistent with GB/T 18451.2-2021.

Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows.

- a) The impact assessment of wind turbine generators and obstacles at the test site has been removed (see Appendix A of the 2021 edition);
- b) The test site topography assessment has been removed (see Appendix B of the 2021 edition);
- c) The site marking procedure has been removed (see Appendix C of the 2021 edition);
- d) The wind tunnel calibration procedure for anemometers has been deleted (see Appendix F of the 2021 edition);
- e) The installation of wind measurement tower equipment has been removed (see Appendix G of the 2021 edition);
- f) The classification of cup anemometers and acoustic anemometers has been removed (see Appendix I of the 2021 edition);
- g) The evaluation of cup anemometers and acoustic anemometers has been removed (see Appendix J of the 2021 edition);
- h) Field comparison of anemometers has been removed (see Appendix K in the 2021 edition);
- i) The wind tunnel calibration procedure for anemometers has been revised (see Appendix L, Appendix L of the 2021 edition).

This document is equivalent to IEC 61400-12-1:2022 "Wind power generation systems - Part 12-1. Power characteristics of wind turbine generators".