ICS 27.180
CCS P 61

NB

ENERGY INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

NB/T 31026-2022

Replacing NB/T 31026-2012

Code for electrical design of wind power projects

风电场工程电气设计规范

Issued on: May 13, 2022 **Implemented on: November 13, 2022**

Issued by: National Energy Administration of the PRC

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Foreword

This document was issued on 13 May 2022 by the National Energy Administration of the PRC and takes effect on 13 November 2022.

It is a NB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 27.180, Chinese classification P 61.

It replaces NB/T 31026-2012, which is superseded.

This code has been revised in accordance with the requirements of the Notice of the General Affairs Department of the National Energy Administration on Issuing the 2017 Plan for the Development and Revision of Industry Standards in the Energy Field and the Plan for the Translation and Publication of Their English Versions (Guo Neng Zong Tong Ke Ji [2017] No. 52). The drafting group carried out extensive investigation and research, earnestly summarized practical experience, and revised the code on the basis of a wide

solicitation of opinions.

The main technical contents of this code are: general provisions; terms; basic requirements; connection to the power system; electrical primary system; electrical secondary system; communication; power collection line; and electrical equipment layout together with the requirements for civil works.

The main technical contents revised in this edition are listed in the paragraphs below.

The scope of application has been changed to read: this code is applicable to wind power projects that are connected to the power system at a voltage level of 66 kV and above.

Provisions governing the electrical design of offshore wind power projects have been added.

The terms 'wind turbine transformer', 'wind turbine high voltage ride through capability', 'dynamic reactive power compensation device', 'array submarine cable' and 'export submarine cable' have been added.

Contents dealing with 'dispatching automation', the 'online monitoring system' and the 'communication power supply' have been added.

Contents such as the configuration principles for the 'image surveillance and security system' and for the 'automatic fire alarm system' have been added.

The contents of the 'monitoring and control system' and of the 'relay protection and safety automatic devices' have been revised.

The configuration principles of the 'AC/DC control power supply system' have been revised.

The terms and definitions of 'wind farm', 'wind turbine generator system', 'reactive power compensation device', 'static var compensator', 'centralized monitoring and control system' and 'monitoring and control system' have been deleted.

This code is administered by the National Energy Administration. It is proposed by, and placed under the day-to-day administration of, the China Renewable Energy Engineering Institute, while the Sub-technical Committee on Wind Farm Planning and Design of the Energy Industry Wind Power Standardization Technical Committee (NEA/TC1/SC1) is responsible for the interpretation of its specific technical contents. Comments and suggestions arising during implementation should be sent to the China Renewable Energy Engineering Institute, No. 2 Liupukang Beixiaojie, Xicheng District, Beijing, postcode 100120.

Publication and Approval Data

Standard designation: NB/T 31026-2022, an energy industry standard of the People's Republic of China. The Chinese title printed on the cover is ??????????? and the official

English title printed beneath it is 'Code for Electrical Design of Wind Power Projects'.

Classification data shown on the cover: ICS 27.180 and the Chinese Standard Classification code P 61, with the sector letter P printed on the left of the cover band and the sector mark NB in the upper right corner.

Date of issue: 13 May 2022. The cover carries the issue statement 2022-05-13 and the issuing authority is the National Energy Administration.

Date of implementation: 13 November 2022. The cover carries the implementation statement 2022-11-13, and the inside title page repeats the effective date as 13 November 2022.

Replaced standard: this edition supersedes NB/T 31026-2012, as stated on the cover and repeated on the inside title page.

Inside title page data: the chief editing department is the China Renewable Energy Engineering Institute; the approving department is the National Energy Administration; the date of entry into force is 13 November 2022.

Publication data: the code is published by China Water and Power Press, Beijing, 2022.

The code was released by Announcement No. 4 of 2022 of the National Energy Administration, dated 13 May 2022.

That announcement states that, pursuant to the Standardization Law of the People's Republic of China and the Measures for the Administration of Energy Standardization, the National Energy Administration approved 209 energy industry standards headed by the Technical Guideline for Smart Wind Farms (Annex 1), the foreign-language versions of 23 energy industry standards headed by the Specification for Preparation of Feasibility Study Report for Photovoltaic Power Projects (Annex 2), and amendment notices to 2 energy industry standards headed by the Code of Investigation for Natural Construction Materials of Hydropower Projects (Annex 3).

In the catalogue of industry standards attached to that announcement as Annex 1, this code appears as item 69 with the designation NB/T 31026-2022, the title ???????????, the replaced standard NB/T 31026-2012, the approval date 2022-05-13 and the implementation date 2022-11-13.

Structure of the Code

The code is organized in nine chapters followed by five appendices, an explanation of the wording used in the code, a list of quoted standards and an addition containing the explanation of the provisions. The main text runs to page 51, the appendices occupy pages 52 to 64, and the back matter begins on page 65, with the explanation of provisions starting on page 69.