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

GB/T 36712-2018

**General principles for energy conservation assessment -- Wind
power generation project**

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Energy Conservation Assessment Contents and Requirements

4.1 Preparation

Foreword

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

This standard is proposed and managed by the National Energy Foundation and Management Standardization Technical Committee (SAC/TC20).

This standard was drafted. China International Engineering Consulting Co., Ltd., China National Institute of Standardization, China Power Engineering Consulting Group, North China Power

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1 Scope

This standard specifies the content and requirements for energy conservation assessment of wind power projects.

This standard applies to new or modified or expanded wind power projects, including energy conservation assessments for onshore, offshore and intertidal projects.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2589 General rules for comprehensive energy consumption calculation

GB/T 2900.53 Electrotechnical terminology wind turbine

GB/T 3484 Enterprise Energy Balance General

GB 17167 Energy-using unit energy metering equipment management and general rules

GB/T 23331 Energy Management System Requirements

GB/T 31341 Energy Conservation Assessment Technical Guidelines

GB 51096 Wind Farm Design Code

DL/T 1365 terminology power saving

DL/T 5383 Wind Farm Design Technical Specification

NB/T 31045 Wind Farm Operation Indicators and Evaluation Guidelines

3 Terms and definitions

Terms and definitions defined by GB/T 2900.53, GB/T 31341, GB 51096, DL/T 1365, DL/T 5383, NB/T 31045

Applicable to this document. For ease of use, some of the terms and definitions in GB/T 31341, NB/T 31045 are repeated below.

3.1

Energy conservation assessment energyconservationassessment

Calculate, analyze and evaluate the scientific rationality of the energy use of the proposed fixed asset investment project according to energy conservation regulations and standards.

And the process of proposing countermeasures and measures for energy optimization utilization.

[GB/T 31341-2014, definition 3.1]

3.2

Comprehensive field power consumption rate

comprehensivewindfarmelectricpowerconsumptionrate

The total amount of electricity used and lost by the wind farm during the production cycle during the statistical period as a percentage of the generated electricity.

[NB/T 31045-2013, definition 3.1.5]

4.1.1 Determining the scope of energy conservation assessment

The scope of energy conservation assessment should be consistent with the scope of investment construction and reflect the integrity of the project, covering energy purchase storage, processing conversion, and transportation.