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Technical guide for grid connection of wave energy generation device

波浪能发电装置并网技术导则

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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.

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 was proposed by the China Electricity Council.

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Technical Guidelines for Grid Connection of Wave Energy Generation Devices

1 Scope

This document specifies the power control, fault ride-through, operational adaptability, power quality, relay protection and Technical requirements for safety automatic devices, dispatching automation and communications, and grid connection detection.

This document is applicable to the grid connection of new, rebuilt and expanded wave energy power generation devices connected to the grid at a voltage level of 10kV and above. Detect and run.

2 Normative references

GB/T 12325

GB/T 12326

GB/T 14285

GB/T 14549

GB/T 15543

GB/T 19862

GB/T 24337

GB/T 36572

GB 38755

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Wave energy

The kinetic and potential energy possessed by waves on the ocean surface.

[Source. GB/T 34910.3-2017, 3.1]

3.2

A device that captures wave energy and converts it into electricity.

Note. It consists of one or more wave energy generators, as well as power transformation and distribution systems, monitoring systems and auxiliary equipment and facilities.

3.3 response time

From the time when the control command is received until the actual output change of the observed variable of the wave energy power generation device reaches the control target value and the initial value for the first time The time required for the difference from the initial value to be 90%.