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

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**Data center - Resource utilization - Part 6: Water usage
effectiveness**

数据中心 资源利用 第6部分：水资源使用效率

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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 is part 6 of GB/T 32910 Data Center Resource Utilization. GB/T 32910 has published the following parts.

- Part 1: Terminology;
- Part 2: Key performance indicator setting requirements;
- Part 3: Electrical energy efficiency requirements and measurement methods;
- Part 4: Utilization rate of renewable energy;
- Part 6: Water use efficiency.

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.

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Introduction

GB/T 32910 "Data Center Resource Utilization" is intended to consist of the following parts.

- Part 1: Terminology. The purpose is to specify common terms and definitions in the field of data center resource utilization.
- Part 2: Key performance indicator setting requirements. The purpose is to specify the setting requirements and description methods of key performance indicators of data centers. Method and use.
- Part 3: Electric energy efficiency requirements and measurement methods. The purpose is to define, measure and calculate the efficiency of electric energy use in data centers. Calculation method, etc.
- Part 4: Renewable energy utilization rate. The purpose is to define and calculate the renewable energy utilization rate of data centers. Law, etc.
- Part 5: Carbon efficiency. The purpose is to specify the definition, measurement method and calculation method of carbon efficiency of data centers.

- Part 6: Water resource efficiency. The purpose is to specify the definition, calculation method and water efficiency of data center water resource efficiency. Grading methods, etc.

Data Center Resource Utilization Part 6: Water use efficiency

1 Scope

This document establishes the water efficiency level and water resource boundary of data centers, and stipulates the relationship between water resource utilization efficiency and water resource utilization efficiency.

The measurement, calculation methods and disclosure requirements for rate evaluation value calculation parameters.

This document is applicable to the calculation of water resource utilization efficiency in data centers, and is also applicable to the analysis of water resource utilization in data centers.

It can be used as a reference for data center design, construction, and operation and maintenance, and as a basis for water efficiency evaluation of data centers.

2 Normative references

GB/T 32910.3-2016

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Data Center

It consists of computer sites (computer rooms), other infrastructure, information system hardware and software, information resources (data) and personnel, as well as corresponding regulations.

An entity composed of degrees.

[Source: GB/T 32910.1-2017, 2.1]

3.2

After treatment, the urban water supply unit provides reusable sewage (wastewater) to customers that meets the water quality requirements for certain purposes.

3.3

The data center collects rainwater, dehumidified water, fuel combustion water and other non-drinking water resources on site, which are self-treated to meet the cooling needs.

Water quality standards and requirements for equipment use and reuse of water.

Note. The water generated by recycling conventional water sources (such as groundwater and tap water) in the data center does not belong to the data center's self-produced recycled water.

3.4

The amount of water that is consumed and lost in various forms in maintaining the normal operation of a data center and cannot return to surface water bodies or underground aquifers.

3.5 [Source. GB/T 32910.3-2016, 3.3]

The total amount of electricity consumed by various information equipment in a data center.