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**NATIONAL STANDARD OF THE
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GB/T 44061-2024

**Smart city - City operation indicator system - Intelligent
infrastructure**

智慧城市 城市运行指标体系 智能基础设施

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Abbreviations	1
3 Index system coding	2
6 Classification of primary indicators	3
3 How to obtain indicator values	6
7 Reference	32

Foreword

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With the advancement of smart city construction practice, many places have successively carried out intelligent transformation and improvement of municipal infrastructure operation and management: The first step is to install urban infrastructure and equipment with dynamic sensing functions in new projects, and the second step is to install them on existing infrastructure: Install intelligent sensing terminal for transformation: From the current development needs of urban intelligent infrastructure construction, it is important to give full play to the importance of IoT in enabling the intelligent transformation of municipal infrastructure: It can realize the standardized management of urban municipal infrastructure information resources, real-time perception of operation status, dynamic risk assessment

and early warning, and remote intelligent control: Disposal and operation and maintenance information system management is the key task at present and in the future: The standardization of the intelligent infrastructure operation indicator system is also It is becoming increasingly urgent: The smart infrastructure operation index system consists of a series of interrelated urban smart infrastructure operation indicators: The foundation of new intelligent infrastructure construction, operation and service, which can reflect the qualitative or quantitative status of urban intelligent infrastructure at a specific time: The characteristics of the state and capability are also an important support for realizing the refined, intelligent and scientific management of urban intelligent infrastructure: The elements of intelligent operation are presented in the form of indicators, which can support the situation awareness, operation monitoring, early warning analysis and decision-making of urban infrastructure operation: Support and other aspects of service applications: This document focuses on urban smart infrastructure, especially the smart municipal infrastructure, under the overall framework of the smart city operation indicator system: In order to solve the problems of unclear and inconsistent operation indicators, the overall framework and classification of the indicator system were proposed, and specific indicators were The standard has been described and improved in detail, aiming to provide guidance for the dynamic perception, early warning and disposal management of my country's intelligent infrastructure: Smart City Urban Operation Index System Smart Infrastructure

1 Scope

GB/T 44061-2024 defines the intelligent infrastructure part of the Chinese smart city operation indicator system, the set of measures by which a city's smart infrastructure is described and compared. Chinese cities are assessed and ranked on smart city performance, funding follows the assessment, and an indicator system that is not standardised produces rankings that measure reporting practice rather than reality. The standard sets the overall framework of the indicator system, its general provisions, its structure and its coding scheme; then the classification of the first-level indicators and of the second-level indicators beneath them; and then the indicators themselves, each with its definition, its unit, its calculation method and its data source, covering the communication networks, the computing and data infrastructure, the sensing and perception layer, the intelligent transport, energy, water and municipal facilities and the platforms that integrate them. For a city administration, a supplier or an analyst comparing Chinese smart city programmes, this is the measurement framework the figures come from. It takes effect on 1 December 2024.

This document establishes the overall framework of the urban intelligent infrastructure operation indicator system, describes the classification, Maintenance and application of indicator items and indicator system: This document applies to the whole process management of dynamic perception, risk warning and intelligent disposal of urban intelligent infrastructure operation, as well as urban intelligent Construction and continuous

improvement of energy infrastructure information management system and operation management platform:

2 Normative references

This document has no normative references:

3 Terms and definitions

The following terms and definitions apply to this document: 3:

1 Urban infrastructure with dynamic perception of operating parameters or with the ability to dynamically perceive operating parameters by installing intelligent sensing terminals A general term for urban integration infrastructure:

Note: The urban smart infrastructure in this document mainly includes urban gas, heating, water supply, drainage, roads, public transportation, gardens and green spaces, sanitation, disaster prevention, lighting, etc: Categories such as open space, integrated pipeline corridor, etc: 3:

2 Values, data and information that reflect the status and capability characteristics of urban smart infrastructure (3:1) at a specific time: 3:

3 An organic whole composed of a series of independent yet interrelated urban intelligent infrastructure operation indicators (3:2):

4 Abbreviations

The following abbreviations apply to this document:

5 Overall framework of the indicator system

1 The city should combine its own infrastructure construction status, development progress, and actual management needs, and follow the principle of overall management, clear classification, and conducive