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

GB/T 43678-2024

**Ecosystem assessment - Methodology for ecosystem services
assessment**

生态系统评估 生态系统服务评估方法

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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 and coordinated by the National Technical Committee for Environmental Management Standardization (SAC/TC207). This document was drafted by: Research Center for Ecology and Environment, Chinese Academy of Sciences, China National Institute of Standardization, Beijing Normal University, China Water Resources Pearl River Planning Survey and Design Co., Ltd., Nuclear Industry Huzhou Survey, Planning and Design Institute Co., Ltd., Tiehan Ecological Construction Co., Ltd., China Power Construction Group's Northwest Surveying and Design Institute Co., Ltd., Institute of Zoology, Chinese Academy of Sciences. The main drafters of this document are. Ouyang Zhiyun, Xiao Yi, Kong Lingqiao, Zou Ziyang, Xu Bingsheng, Zheng Hua, Xu Weihua, Zhang Lijia, Wang Xiaoke, Ren Yufen, Lu Fei, Zhang Lu, Han Baolong, Rao Enming, Ouyang Fang, Zhang Guanshi, Hou Shan, Song Zijian, Zhao Lei, Chen Bin, Wang Saige, Li Cui, Tian Shubin, Tang Jinyun, Zhu Wei, Shi Yaqi, Xue Junhua. Ecosystem Assessment Ecosystem Services Assessment Methods

1 Scope

GB/T 43678-2024 gives the Chinese methodology for assessing ecosystem services, the benefits that ecosystems provide to people. It is not an academic exercise in China: ecosystem service value is used in the gross ecosystem product accounting that provinces are now assessed on, in the ecological compensation payments made between upstream and downstream jurisdictions, and in the damage assessments that follow an environmental offence, so the method determines real transfers of money. The standard sets the

classification of ecosystem services into provisioning, regulating, supporting and cultural, then the assessment framework and process, the selection of the services to be assessed for a given ecosystem and purpose, the indicators and the physical quantification of each service, water retention, soil conservation, carbon sequestration, air purification, flood mitigation, habitat provision, product supply and recreation among them, the valuation methods and their choice, the treatment of double counting, and the uncertainty, the presentation and the reporting of results. It took effect on 1 July 2024.

This document describes the assessment content and process, assessment indicator system and assessment methods of ecosystem services. This document is applicable to the assessment of ecosystem services such as forests, grasslands, lakes, etc. in administrative areas and other natural geographical areas.

2 Normative references

This document has no normative references.

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Ecosystem services The benefits that humans derive from ecosystems.

Note. It includes four parts. supply service, regulation service, cultural service and support service.

3.2 Provisioning services The material benefits that ecosystems provide to humans and are used by humans.

3.3 regulating services The benefits that ecosystems provide to maintain or improve human survival and living environment.

3.4 Cultural services The intangible benefits that ecosystems provide to improve the quality of human life.

3.5 Supporting Services Ecosystem functions that support the production of other ecosystem services.

4 Evaluation content and process

4.1 Evaluation Content The content of ecosystem service assessment is the functional quantity of ecosystem provision services, regulating services, cultural services and supporting services.

4.2 Evaluation Process The ecosystem service assessment process (see Figure 1) mainly includes.

a) Determine the scope of the assessment. According to the purpose of the assessment, determine the spatial scope of the ecosystem service assessment, such as forests, grasslands, lakes, swamps, etc. ecosystems, or regional units composed of different ecosystem types (such as watersheds, eco-geographical regions, etc.), or administrative units.

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