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

GB/T 42681-2023

**Guideline on performance evaluating for circular economy -
Resource utilization of agricultural waste**

循环经济绩效评价 农业废弃物资源化利用

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Foreword

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1 Scope

GB/T 42681-2023 provides a way of measuring whether agricultural waste is actually being turned into something useful. Crop straw and livestock manure are produced in enormous quantity, and the alternatives to using them - burning straw in the field, letting manure run off - are among the more visible sources of air and water pollution in rural areas.

Programmes to make use of them are widespread and their success is usually reported in inputs: how much was collected, how much was invested. That says little about whether the material ended up displacing fertiliser or fuel, and it makes one county's results incomparable with another's. This document specifies the evaluation principles, the evaluation indicator system, the evaluation methods and the evaluation procedure for the resource utilisation of agricultural waste. It applies to performance evaluation at county level and above for crop straw and livestock and poultry manure, and to the evaluation of the agricultural enterprises involved. Under ICS 13.020.01 and CCS Z01, it is written for the local governments and agricultural authorities running these programmes, and for the third parties asked to assess them.

This document specifies the evaluation principles, evaluation index system, evaluation methods and evaluation procedure: This document is applicable to the performance evaluation of resource utilization of crop straw and livestock and poultry manure at the county level and above, or the performance evaluation of related agricultural enterprises: Performance evaluation of resource utilization of straw, livestock and poultry manure:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB/T 34345 Technical Guidelines for Circular Economy Performance Evaluation

GB/T 34805 General Requirements for Comprehensive Utilization of Agricultural Wastes

3 Terms and Definitions

The following terms and definitions apply to this document: 3:1 agricultural waste
agricultural waste Waste biomass from agricultural production and processing:

Note: Including planting waste, forestry waste and breeding waste: [Source: GB/T 34805-2017, 3:1] 3:

2 Determine and calculate the circular economy indicators such as the resource output rate and resource recycling rate of agricultural waste to obtain the performance level in conclusion: 3:

3 Circular economy index *circulareconomyindex* The weighted average of circular economy indicators such as resource output rate and resource recycling rate: 3:

4 Resource output rate *resourceproductivity* The economic quantity or material quantity output by the unit input of the physical quantity of main material resources:

Note 1: The physical quantity of main material resources refers to the actual available resource quantity of crop straw, livestock and poultry manure, which is described by total consumption:

Note 2: The economic volume refers to the total output value of resource utilization of crop straw and livestock manure: [Source: GB/T 34345-2017, 3:1]

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