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Recyclable resources recycling system— Construction specification of collection site

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Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020 Guidelines for Standardization - Part 1: Structure and Drafting Rules of Standardization Documents.

Please note that certain content of this document may involve patents. The issuing authority of this document shall not be liable for identifying such patents.

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Recyclable resources recycling system—Construction specification of collection site

1 Scope

This document defines the terms of renewable resources recycling stations within the renewable resources recycling and utilization system, establishes the general principles for the construction of such recycling stations, and specifies the general requirements, construction requirements for drop-off points and construction requirements for transfer stations.

This document is applicable to the construction of recycling stations in the renewable resources recycling and utilization system.

2 Normative References

The contents of the following documents constitute indispensable provisions of this document through normative reference in the text. For dated referenced documents, only the edition corresponding to the date is applicable to this document; for undated referenced documents, the latest edition (including all amendments) is applicable to this document.

GB/T 2893.5 Graphical Symbols, Safety Colours and Safety Signs—Part 5: Principles and Requirements for the Use of Safety Signs

GB 2894 Safety Signs and Their Use Guidelines

GB/T 37515 Specifications for Construction of Renewable Resources Recycling System

GB 50016 Code for Fire Protection Design of Buildings

GB 50140 Code for Design of Fire Extinguisher Configuration

3 Terms and Definitions

The terms and definitions given in GB/T 37515 and the following apply to this document.

3.1 collection site

A terminal entity of the renewable resources recycling system, which is a venue for the recycling, classification, volume reduction, storage and transfer of renewable resources.

Note 1: A collection site is generally located in communities, public institutions, industrial and mining enterprises, villages or other places where renewable resources are generated in relatively concentrated quantities.

Note 2: Collection sites include collection stations and transfer stations.

3.2 collection station

A venue for the delivery, recycling, classification and temporary storage of renewable resources.

Note: Collection stations include fixed collection stations and mobile collection stations.

3.3 transfer station

A venue for the centralized recycling, preliminary sorting, volume reduction, storage and transshipment of renewable resources.

3.4 fixed collection station

A collection station with a permanent location.

Note: Fixed collection stations include store-type collection stations and box-type collection stations.

3.5 mobile collection station

A temporary collection station established on demand with a variable location.

Note: Mobile collection stations include scheduled fixed-location collection stations and mobile collection stations.

4 General Principles

4.1 Act in accordance with local conditions

Rationally plan the layout of collection sites based on the actual situation of renewable resource sources in the location, so as to improve the recycling rate of renewable resources.

4.2 Rational layout

Arrange collection sites in a rational manner to maintain an appropriate distribution density. The distance between collection sites and waste-generating entities or community households shall be kept at a reasonable level, while avoiding excessive number of collection sites that may result in low recycling volume and utilization rate of individual sites.

4.3 Flexibility and convenience

Take fixed collection stations as the mainstay and mobile collection stations as a supplement to meet the needs of various delivery methods. It shall not only facilitate waste-generating entities and residents to deliver resources voluntarily, but also support them to arrange on-site pickup services through various reservation channels.

4.4 Fast inbound and outbound turnover

For the recycled renewable resources, conduct preliminary classification as soon as possible, then transfer them to transfer stations in a timely manner, and further transship them to sorting centers promptly. This is to minimize the duration and quantity of temporary storage, and improve the utilization efficiency of collection sites.

4.5 Green and environmental protection

Implement the concept of green development and environmental protection, promote green recycling, reduce environmental pollution, and achieve sustainable development.

5 General Requirements

5.1 The establishment of collection sites shall comply with the requirements of the urban territorial spatial master plan, the local renewable resources recycling and utilization system plan, and the urban-rural environmental comprehensive management.

5.2 The site selection, layout, scale and construction of collection sites shall be coordinated with the local social, economic, technological, urban construction, transportation and urban management development.

5.3 The establishment of collection sites shall be integrated with the collection and transfer facilities for recyclables in the domestic waste classification system, to facilitate the delivery of resources by residents and waste-generating entities.

6 Construction Requirements for Collection Stations

6.1 Construction of Fixed Collection Stations

6.1.1 Fixed collection stations shall be established on a per-urban residential community or per-administrative village basis, or set up within the premises of waste-generating entities. Priority shall be given to the use of municipal planning land and supporting construction land of communities or villages. The venue may be self-owned or leased. In case of lease, the operator shall hold a lease contract with a term of five years or more for the venue.

6.1.2 In accordance with the principle of flexibility and convenience, one fixed collection station should be established for every 1,000–2,000 households in urban areas. One fixed collection station shall be established for each administrative village in rural areas. For population gathering areas outside residential districts, the establishment of fixed collection stations shall comprehensively consider the population size and area of the gathering area, with at least one fixed collection station set up for each gathering area. Each waste-generating entity shall be equipped with no less than one fixed collection station.

6.1.3 Fixed collection stations shall be constructed as store-type collection stations. For venues where the construction conditions for store-type collection stations are not available, box-type collection stations may be constructed instead.