

HJ

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**Technical guideline on pollution prevention and control for solid
waste recycling
(English Translation)**

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Foreword

To implement the "Environmental Protection Law of the People's Republic of China" and "Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes", etc.

Laws and regulations, prevent and control environmental pollution, improve the quality of the ecological environment, and regulate the construction and operation of solid waste recycling projects, Develop this standard.

This standard specifies the general technical requirements for pollution prevention and control in the process of solid waste recycling.

This standard is a guiding standard.

This standard is issued for the first time.

This standard was formulated by the Department of Science, Technology and Finance, and the Department of Regulations and Standards of the Ministry of Ecology and Environment.

The main drafting organizations of this standard. Chinese Academy of Environmental Sciences, Tsinghua University, Sichuan University.

This standard was approved by the Ministry of Ecology and Environment on January 13, 2020.

This standard will be implemented on January 14, 2020.

This standard is interpreted by the Ministry of Ecology and Environment.

Technical guidelines for pollution prevention and control of solid waste recycling

1 Scope of application

This standard specifies the overall requirements for the site selection, construction and operation of solid waste recycling projects.

Technical requirements and monitoring requirements for pollution prevention and control this standard applies to existing, new, rebuilt, and expanded solid waste recycling projects, which can be used as solid waste recycling Use the technical basis of construction project environmental impact assessment, design, construction, acceptance, and operation and management after completion.

This standard is a general technical requirement for pollution prevention and control in the process of solid waste recycling; if there are specific standards for solid waste recycling, the specific standards shall be implemented.

2 Normative references

The content of this standard refers to the terms in the following documents. For undated reference documents, their valid versions are applicable to this standard.

GB 8172 Urban Waste Agricultural Control Standard GB 8978 Integrated Wastewater Discharge Standard GB 12348 Environmental Noise Emission Standard at the Boundary of Industrial Enterprises GB 14554 Emission Standard of Odor Pollutants GB/T 14848 Groundwater Quality Standard GB 15603 General rules for the storage of commonly used dangerous chemicals GB 15618 Soil Environmental Quality Agricultural Land Soil Pollution Risk Control Standard (for Trial Implementation) GB 16297 Comprehensive Emission Standard of Air Pollutants GB/T 17420 Foliar fertilizer with trace elements GB 18484 pollution control standard for hazardous waste incineration GB 18597 Pollution Control Standard for Hazardous Waste Storage GB/T 23486 Urban sewage treatment plant sludge disposal landscaping mud GB/T 24600 Urban sewage treatment plant sludge disposal land improvement mud GB 30485 Cement Kiln Co-processing Solid Waste Pollution Control Standard GB 30760 Technical Specification for Cement Kiln Co-processing of Solid Waste GB 34330 General Rules for the Identification Standard of Solid Waste GB 36600 Soil Environmental Quality Construction Land Soil Pollution Risk Control Standard (Trial) GB 38400 Limit standard for toxic and hazardous substances in fertilizers GBZ 2.1 Occupational Exposure Limits for Hazardous Factors in the Workplace Part 1: Chemical Hazardous Factors GBZ 2.2 Occupational Exposure Limits for Hazardous Factors in the Workplace Part 2: Physical Factors CJ/T 309 Urban sewage treatment plant sludge disposal agricultural mud CJ/T 362 Urban sewage treatment plant sludge disposal woodland mud HJ 662 Cement Kiln Co-processing Solid Waste Environmental Protection Technical Specification HJ 2042 Technical Guidelines for Hazardous Waste Disposal

Engineering

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Solid waste

In production, life and other activities, the original use value is lost or the use value is not lost but is abandoned or the solid, semi-solid, and gaseous articles and substances placed in the container and the laws and administrative regulations Articles and substances for waste management.

3.2 Solid waste recycling

Use solid waste directly as raw material or fuel, or use separation, purification and other processes for material resources the process of chemical utilization is divided into the recycling of materials used as raw materials or substitute materials and the recycling of energy used as alternative fuels.

3.3 Utilization of solid waste as building materials

Use solid waste to directly replace traditional building materials production raw materials, or convert them into building materials production raw materials for production the process of building materials. The main forms of utilization of solid waste building materials include the use of solid waste to produce cement, bricks and tiles, lightweight aggregates, and concrete.

Concrete, glass, ceramics, ceramsite, roadbed materials, etc.

3.4 Application of solid waste to land use

Utilize part of the nutrient content of solid waste to directly use or indirectly transform solid waste for soil improvement the process of chemical or fertilizer. The land use of solid waste usually requires necessary pretreatment and processing such as biological treatment and thermal drying.

Land use of solid waste does not include backfilling of solid waste mines.

3.5 Process unit

Any major unit in the solid waste recycling process, including the physical the entire production process including chemical reaction, mechanical processing, storage, packaging and pollution prevention.

4 General requirements

4.1

The recycling of solid waste should follow the principle of environmental safety first, and ensure the environmental safety and human health of the whole process of solid waste recycling.

4.2

When selecting a solid waste recycling technology, it should be based on the results of the solid waste recycling technology life cycle assessment.

On this basis, combined with relevant regulations and industry policy requirements.

4.4

The design, construction, acceptance and operation of solid waste recycling construction projects shall comply with the current national laws and regulations.

At the same time, a sound environmental management system shall be established, including environmental impact assessment, environmental management plan, environmental protection responsibility, Pollution permits, monitoring, information disclosure, environmental emergency plans and environmental protection file management systems.

4.5

The environmental pollution factors in each technical link of solid waste recycling shall be identified, and effective pollution control measures shall be adopted.

Equipped with pollutant monitoring equipment and facilities to avoid unorganized discharge of pollutants, prevent secondary pollution, and properly dispose of the generated waste.

4.6

The discharge of various pollutants generated during the recycling process of solid waste should meet the national and local pollutant discharge (control) Standards and pollution permit requirements.

4.7

If the solid waste recycling product is used as a product, it shall comply with the requirements of the national, local or industry regulations in GB 34330 the prevailing product quality standards, and relevant national pollution control standards or technical specifications, including the emissions during the production process of the product the content standard of characteristic pollutants put into the environment and the content standard of characteristic pollutants in the product.

When there is no national pollution control standard or technical specification, the