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中国“无废城市”建设 试点介绍

Introduction to China's “No-waste City” Pilot Construction

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一、什么是“无废城市” What's "no-waste city"

- ◆ 联合国环境署走向**无污染**的星球
Moving Towards a Pollution-free Planet, UNEP
- ◆ 欧盟**零废物**计划
Zero-waste Programme, EU
- ◆ 新加坡迈向**零废物**国家
Moving Towards a Zero-waste Country, Singapore
- ◆ 日本**循环型**社会
Circular Society, Japan
- ◆ 加拿大温哥华市 《Zero waste 2040》
Zero waste 2040, Vancouver, Canada
- ◆ 澳大利亚悉尼市 leave nothing to waste
Leaving Nothing to Waste, Sydney, Australia

一、什么是“无废城市” What's "no-waste city"

- 关系：废物污染防治与经济社会可持续发展
Relationship: Waste Pollution Prevention and Socioeconomic Sustainable Development
- 方式：绿色设计、绿色生产、绿色生活
Pathway: Green Design, Green Production & Green Living
- 手段：激励与约束并举
Means: Incentive and Constraint
- 近期目标：源头减量、充分循环、安全处置
Short-term Objective: Reduce, Fully Recycle, Safe Disposal
- 远景目标：填埋量趋向于零
Long-term Objective: The reduction of landfill to zero.

一、什么是“无废城市” What's "no-waste city"

“无废城市”是一种先进的城市管理理念，“无废”并不是没有固体废物产生，也不意味着固体废物能完全资源化利用，而是指以新发展理念为引领，通过推动形成**绿色发展方式和生活方式**，持续推进固体废物源头减量和资源化利用，最大限度减少填埋量，将固体废物环境影响降至最低的**城市发展模式**。

“No-waste city” is an advanced philosophy in urban management. “No-waste” does not mean the zero-generation of solid waste, or the full utilization of solid waste as a resource. Yet, it refers to a **urban development model**, leading by a new ideology on development, to minimize solid waste generation. It promotes the establishment of **green development and green lifestyle**, and the reduction & recycle of solid waste, and minimizes landfill.

一、什么是“无废城市” What's "no-waste city"

范围：不局限于建城区范围，而是包括城市行政管辖的全部地域。

Scope: Broader than urban construction area, including all areas under the jurisdiction of urban administration.

缘由：一是落实《生态文明体制改革总体方案》中提出的坚持城乡环境治理体系统一的生态文明体制改革原则。

Origins: First, the need to implement the principles of ecological civilization, strengthen environmental management and promote its improvement, which are put forward in the Overall Plan for the Reform of Ecological Civilization.

二是工业、农业和消费过程产生的各类废物，在区域层面统筹考虑收集、贮存、利用处置问题，可以最大程度发挥协同增效作用。

Second, to manage the collection, storage, utilization and disposal of all kinds of wastes generated in the process of industry, agriculture and consumption at the regional level, could play a synergistic role to the greatest extent.

二、为何要建设“无废城市” Why “no-waste city” ?

经济社会发展阶段 Stage of Economic & Social Development :

我国社会主要矛盾已经转化为人民日益增长的美好生活需要和不平衡不充分的发展之间的矛盾。

The main social contradiction in China has become the contradiction between people's growing need for a better life and the unbalanced & inadequate development.

固体废物管理短板突出 Weakness of Solid Waste Management

- ◆ 固体废物产生强度大、数量多 Intensive & massive solid waste generation
- ◆ 利用处置能力不足 Inadequate capacity of solid waste recycle and disposal
- ◆ 垃圾“围城”、“困村”等问题突出 Prominent problems, such as “waste besieged city” and “waste besieged villages”
- ◆ 非法转移倾倒事件仍呈高发态势 Frequent occurrence of illegal transfer and dumping incidents

与人民日益增长的优美生态环境需要还有较大差距

Big gap between the growing need and development

二、为何要建设“无废城市” Why “no-waste city” ?

党中央、国务院高度重视固体废物问题。

The CPC Central Committee and the State Council attach great importance to solid waste.

党的十八大以来，党中央、国务院深入实施大气、水、土壤污染防治行动计划，把禁止洋垃圾入境作为生态文明建设标志性举措，持续推进固体废物进口管理制度改革，加快垃圾处理设施建设，实施生活垃圾分类制度，固体废物管理工作迈出坚实步伐。

Since the Eighteenth National Congress of the CPC, the CPC Central Committee and the State Council have thoroughly implemented the action plan aiming at preventing air, water and soil pollution. Prohibition of the entry of foreign garbage as a landmark of the construction of ecological civilization, Chinese government has continuously promoted the reform of solid waste import management system, accelerated the construction of garbage treatment facilities, implemented the classification of municipal solid waste, and made great progress in the management of solid waste.

生活垃圾分类就是新时尚

Classification of municipal solid waste is the new fashion.

厕所革命 Toilet revolution

二、为何要建设“无废城市” Why “no-waste city” ?

各部门推动 Joint Efforts of Ministries & Commissions :

1. 发展改革委：循环经济示范城市（县）、资源综合利用“双百工程”、餐厨废弃物资源化利用和无害化处理试点建设工作

Development and Reform Commission: Pilot Construction of Circular Economy Demonstration City (County), “Hundreds Project” for Comprehensive Utilization of Resources, Utilization and Harmless Treatment of Kitchen Waste.

2. 工业和信息化部：工业固体废物综合利用基地建设试点工作

Ministry of Industry and Information Technology: Construction of Comprehensive Industrial Solid Waste Utilization Base.

3. 农业农村部：畜禽粪污资源化利用、农作物秸秆综合利用试点、农膜回收试点
Ministry of Agriculture and Rural Areas: Pilot Programs for Utilization of Livestock and Poultry Manure, Comprehensive Utilization of Crop Straw and Recycling of Agricultural Membrane

4. 住房城乡建设部：城市生活垃圾强制分类、建筑垃圾治理试点工作
Ministry of Housing and Urban-Rural Construction: Pilot Work on Compulsory Classification of Municipal Solid Waste and Treatment of Construction Waste

5. 商务部：再生资源回收体系建设试点工作

Ministry of Commerce: Pilot Construction of Renewable Resources Recycling System

6. 邮政局：绿色快递邮递

Post Bureau: Green Express

二、为何要建设“无废城市” Why “no-waste city” ?

各地方实践 Local Government' s Efforts :

浙江省“千村示范万村整治”工程获联合国“地球卫士奖”
Zhejiang Province's Project, named "Demonstration and Regulation in Thousands of Villages", won the United Nations' "Earth Guardian Award"



二、为何要建设“无废城市” Why “no-waste city” ?

国家生态文明建设要求 Requirements of Ecological Civilization

- ◆ 党的“十九大”报告提出“加强固体废弃物和垃圾处置”改革任务；
The report of the Nineteenth National Congress of the Communist Party of China raised the reform task to improve the disposal of solid waste ;
- ◆ **2018年6月**：《中共中央 国务院关于全面加强生态环境保护坚决打好污染防治攻坚战的意见》提出，**要开展“无废城市”试点，推动固体废物资源化利用。**

In June 2018, *The Opinions of the Central Committee of the CPC and the State Council on Enhancing the Protection of the Ecological Environment in an All-round Way and Winning the Battle of Pollution Prevention* were put forward, requiring the pilot project of "No-Waste City" and promote the recycling of solid waste.

- ◆ 2019年政府工作报告提出**“加强固体废弃物和城市垃圾分类处置，促进减量化、资源化、无害化”**

Work Report of Chinese Government in the year of 2019 highlights the strengthening in classification of solid waste and municipal waste, and the promotion of reduction, recycle and safe disposal.

二、为何要建设“无废城市” Why “no-waste city” ?

生态环境部会同18个部门和单位共同编制“无废城市”建设试点工作方案，报请中改委、国务院同意。

The Ministry of Ecology and Environment, with 18 other departments, having worked out a work plan on the construction of “no-waste city” pilot and submitted it to China Reform Commission and the State Council for approval.

2018年12月，国务院办公厅印发《“无废城市”建设试点工作方案》（国办发〔2018〕128号）

In December 2018, the General Office of the State Council issued the Work Plan for the Pilot Project of “no-waste city” (No. 128 [2018] issued by the Office)

凝聚了院士专家、技术支持单位、行业协会、管理部门的智慧

Combined wisdom of academicians, experts, technical support units, industrial associations and management departments

三、如何建设“无废城市” How to build “no-waste city”

定位：固体废物领域生态文明体制改革。不仅仅是固体废物问题，不单单是生态环境问题。

Essence: Ecological civilization reform in field of solid waste. Not just about solid waste, but also about the ecology & environment.

大环保、大统筹 Overall environment-friendly and overall planning

◆处理好“无废城市”建设试点与城市经济社会发展的关系

Dealing with the Relations between the Pilot Project of "No-waste City" Construction and Urban Economic and Social Development

◆处理好“无废城市”建设试点与城市建设运营的关系

Dealing with the Relations between the Pilot Project of "No-waste City" Construction and the Urban Construction and Operation

◆处理好“无废城市”建设试点与其他相关试点的关系的关系

Dealing with the relations between the pilot project of "No-waste City" construction and other relevant pilot projects.

思路 Ideology

“无废城市”是指以创新、协调、绿色、开放、共享的新发展理念为引领，通过推动形成绿色发展方式和生活方式，持续推进固体废物源头减量和资源化利用，最大限度减少填埋量，将固体废物环境影响降至最低的城市**发展模式**。

“No-waste city” refers to a urban development model, leading by a new ideology on development, which emphasizes innovation, coordination, greenness, openness and sharing, to minimize solid waste generation. It promotes the establishment of green development and green lifestyle, and the reduction & recycle of solid waste, and minimizes landfill.

三、如何建设“无废城市” How to build “no-waste city”

途径：三法衔接、三化融合

Approaches: Co-functioning the Three Laws and Integrating the Three Modernizations

- ◆ **清洁生产促进法** Cleaner Production Promotion Law
- ◆ **循环经济促进法** Circular Economy Promotion Law
- ◆ **固体废物污染环境防治法** Prevention and Control Law of Solid Waste Environmental Pollution

- **减量化** Reduction
- **资源化** Recycle
- **无害化** Environmentally Sound

三、如何建设“无废城市” How to build “no-waste city”

动力：凝聚改革合力+搞好探索创新

Motivation: Cohesion the Forces of Reform +
Exploration and Innovation

有机继承与集成创新关系，将已有改革成果制度化、法制化，形成稳定长效的机制；同时进行必要的改革创新，形成政策制度的协同放大效应，提高管理效能。

Inherit and integrate the innovation relationship organically, institutionalize and legalize the existing reform achievements and establish a stable and long-term mechanism. At the same time, carry out necessary reform and innovation to achieve the synergistic amplification effect of policies and improve management efficiency.

三、如何建设“无废城市” How to build “no-waste city”

主要任务 Main tasks

1

强化**顶层设计**引领，发挥政府宏观指导作用

Strengthen the Importance of Top-leading Design and Play the Government's Macro-directive Role.

2

实施**工业绿色生产**，推动大宗工业固体废物贮存处置总量趋零增长

Implement green industrial production and promote zero growth of the total amount of industrial solid waste.

3

推行**农业绿色生产**，促进主要农业废弃物全量利用

Promote Green Agriculture and Full Recycle of Major Agricultural Wastes

4

践行**绿色生活方式**，推动生活垃圾源头减量和资源化利用

Live a Green Life and Promote Waste Reduction and Recycle.

5

提升风险防控能力，强化**危险废物**全面安全管控

Strengthen the Capacity of Risk Prevention and Promote The Comprehensive Safety Management of Hazardous Wastes

6

激发**市场主体活力**，培育产业发展新模式

Stimulate the Vitality of Market Main Bodies and Cultivate New Industrial Development Model

三、如何建设“无废城市” How to build “no-waste city”

(一) 强化顶层设计引领，发挥政府宏观指导作用 Strengthen the Importance of Top-leading Design and Play the Government's Macro-directive Role

宏观引领和成效评价
Macro Leadership
and Effective
Evaluation

建立“无废城市”建设**指标体系**，发挥导向引领作用
Establish Index System of “No-waste City” Construction
and Play the Leading Role

责任清单
Responsibility List

优化固体废物管理体制机制，**强化部门分工协作**
Optimize the Mechanism of Solid Waste Management and
Strengthen the Division of Work among Departments

固体废物领域体制改
革System Reform
in the Field of
Solid Waste

加强制度政策集成创新，增强**试点方案系统性（实
施方案）** Strengthen the integration and innovation
of policy, and enhance the systematic work of pilot
scheme (implementation scheme)

基础保障
Basic Guarantee

统筹城市发展与固体废物管理，**优化产业结构布局**
Overall plan on urban development and waste
management, **optimize the layout of industrial
structure**

三、如何建设“无废城市” How to build “no-waste city”

(二) 实施工业绿色生产，推动大宗工业固体废物贮存处置总量趋零增长 Implement green industrial production and promote zero growth of the total amount of industrial solid waste.

**减源头
Reduction**

全面实施**绿色开采**，减少矿业固体废物产生贮存处置量
Implement **Green Mining** in an All-round Way to Reduce the Production and Storage of Solid Waste in Mining Industry

**控过程
Process
Control**

开展**绿色设计和绿色供应链建设**，促进固体废物减量和循环利用
Develop Green Design and Green Supply Chain, Promote Solid Waste Reduction and Recycling

**促利用
Recycle**

健全标准体系，推动大宗工业固体废物**资源化利用**
Perfect the Standard System and Promote **the Recycle** of Large Industrial Solid Waste

**消存量
Eliminate
Storage**

严格控制增量，逐步解决工业固体废物**历史遗留**问题
Strictly control new increments and gradually solve **the problems left over from the history** of industrial solid waste.

三、如何建设“无废城市” How to build “no-waste city”

(三) 推行农业绿色生产，促进**主要农业废弃物全量利用** Promote Green Agriculture and Full Recycle of Major Agricultural Wastes

种养平衡 Circular Agriculture

以规模养殖场为重点，以建立种养循环发展机制为核心，逐步实现**畜禽粪污就近就地综合利用**
Focus on large-scale farms, establish a breeding & supporting cycle development mechanism as its core part, and gradually realize **the comprehensive on-site utilization of livestock.**

就地就近多 途径利用 On-site Utilization

以收集、利用等环节为重点，坚持因地制宜、农用优先、就地就近原则，推动区域**农作物秸秆全量利用**
Focus on collection and utilization, adhere to the principles of adapting to local conditions, and give priority to agriculture so as to promote the full recycling of regional crop straw.

高效回收 Efficient Recycle

以**回收、处理等环节**为重点，提升废旧农膜及农药包装废弃物再利用水平
Focus on recovery and treatment, establish incentive mechanism to improve the recycling of scrapped agricultural film and pesticide packaging.

三、如何建设“无废城市” How to build “no-waste city”

(四) 践行绿色生活方式，推动**生活垃圾**源头减量和资源化利用

Live a Green Life and Promote Waste Reduction and Recycle.

践行绿色生活方式
Live A Green Life

培育绿色消费理念
Green Consumption

生活垃圾减量
Reduce
Municipal
Solid Wastes

绿色包装
应用
Green
Packaging

绿色商场创建
Establishmen
t of Green
Market

生活垃圾资源
化利用
Recycle
Municipal
Solid Waste

餐厨垃圾资源
化利用
Recycle
Kitchen
Waste

建筑垃圾治理
Construction
Waste
Treatment

三、如何建设“无废城市” How to build “no-waste city”

(五) 提升风险防控能力，强化危险废物全面安全管控

Strengthen the Capacity of Risk Prevention and Promote The Comprehensive Safety Management of Hazardous Wastes

源头防控

Prevention
& Control
at Source

- 筑牢危险废物源头防线——减量、识别
- Build a Firm Line to Defense Hazardous Waste ——Reduction and Identification

全过程监管

Process
Supervision

- 夯实危险废物过程严控基础——完善管理链条
- Tamp a Solid Foundation for the Management of Hazardous Waste ——Improve the Management Chain

安全利用处置

Safe Recycle
and Disposal

- 完善危险废物相关标准规范，确保安全利用与处置——标准引导+严格执法
- Improve the Standards and Specifications of Hazardous Wastes to Ensure Safe Recycle and Disposal —— Standard Guidance + Strict Law Enforcement

三、如何建设“无废城市” How to build “no-waste city”

(六) 激发市场主体活力，培育产业发展新模式 Stimulate the Vitality of Market Main Bodies and Cultivate New Industrial Development Model

资源综合利用增值税优惠 Value Added Tax Preferences for Products and Services of Comprehensive Utilization of Resources

环境信用评价制度 Environmental Credit Evaluation

工业固体废物资源综合利用评价机制 Systematic Evaluation for comprehensive utilization of industrial solid waste resources

发展绿色金融 Develop Green Finance

加大对畜禽粪污、秸秆综合利用生产有机肥的补贴力度 Increase subsidies for the production of organic fertilizer by the comprehensive utilization of livestock and poultry manure and straw.

实施建筑垃圾资源化利用产品的强制使用制度 Implement the Mandatory Measure of Construction Waste Resources Utilization.



增强政策供给
有效性 & 激发
固体废物市场
活力

Enhance the Effectiveness of Policy Supply & Stimulate the Market Vitality of Solid Waste

扩大政府绿色采购中循环利用产品种类 Expand the category of recyclable products in government green procurement

推广新型墙材等绿色建材应用

Promote the application of new wall materials and other green building materials

三、如何建设“无废城市” How to build “no-waste city”

主要产出 Main Output

- 系统构建“无废城市”建设指标体系； Systematically construct the index system of “no-waste city”；
- 探索建立“无废城市”建设的综合管理制度和技术体系； Explore the establishment of a comprehensive management system and technical system for the construction of “no-waste city”；
- 在固体废物重点领域和关键环节取得突破性进展，全国形成一批可复制、可推广的示范模式； Breakthroughs in key areas and key chains of solid waste; and a number of replicable and popularizable demonstration models have been formed throughout the country.
- 培育一批固体废物资源化利用骨干企业。 Foster & cultivate a batch of backbone enterprises of solid waste resource utilization.

三大核心：制度体系、技术体系、市场体系

Three Cores: Institutional System, Technical System and Market System

四、如何推动“无废城市” How to promote the construction of “no-waste city” ?

国家层面 National Level

(一) 建立工作协调机制 Establish Work Coordination Mechanism

- ◆ 由生态环境部牵头组建部际协调小组
Establishment of Inter-ministerial Coordination Group Led by the Ministry of Ecology and Environment;
- ◆ 成立咨询专家委员会
Establishment of an Advisory Expert Committee
- ◆ 组建工作组
Formation of working groups

(二) 筛选试点城市 Selecting Pilot Cities

- ◆ 筛选试点城市：10个左右。 Selection of pilot cities: about 10
- ◆ 召开启动会。 Initiation meeting
- ◆ 推动指导试点城市印发“无废城市”建设实施方案。
Promote the guidance on the issue of implementation plans in pilot cities for the construction of "no-waste city"

四、如何推动“无废城市” How to promote the construction of “no-waste city” ?

国家层面 National Level

(三) 过程指导 Guidance during the Process

- ◆ 印发“无废城市”建设指标体系。
Issue the index system of “no-waste city” construction.
- ◆ 构建“无废城市”建设可视化信息管理平台。
Build a visual information management platform of “no-waste city”
- ◆ 组织现场考察、合作交流、调研指导
On-site investigation organization, cooperation and exchange, research and guidance.

(四) 评估总结 Evaluation & Summary

- ◆ 开展中期评估；凝练试点成果；加强宏观政策支持。
Carry out mid-term assessment; condense pilot results; strengthen macro-policy support.

试点城市层面 City Level

◆市委、市政府认识到位

Municipal Party Committee and Municipal Government have a full reorganization of “no-waste city” .

◆科学编制“无废城市”实施方案

Scientific Compilation of "No-waste City" Implementation Scheme.

◆实施方案推进落实到位

Promote the implementation of the scheme.



请批评指正!

Comments & Suggestions!