



# 中国国家报告

China National Report

## 第三十三届亚洲塑料论坛

The 33rd Asian Plastics Forum

中国塑料加工工业协会

China Plastics Processing Industry Association

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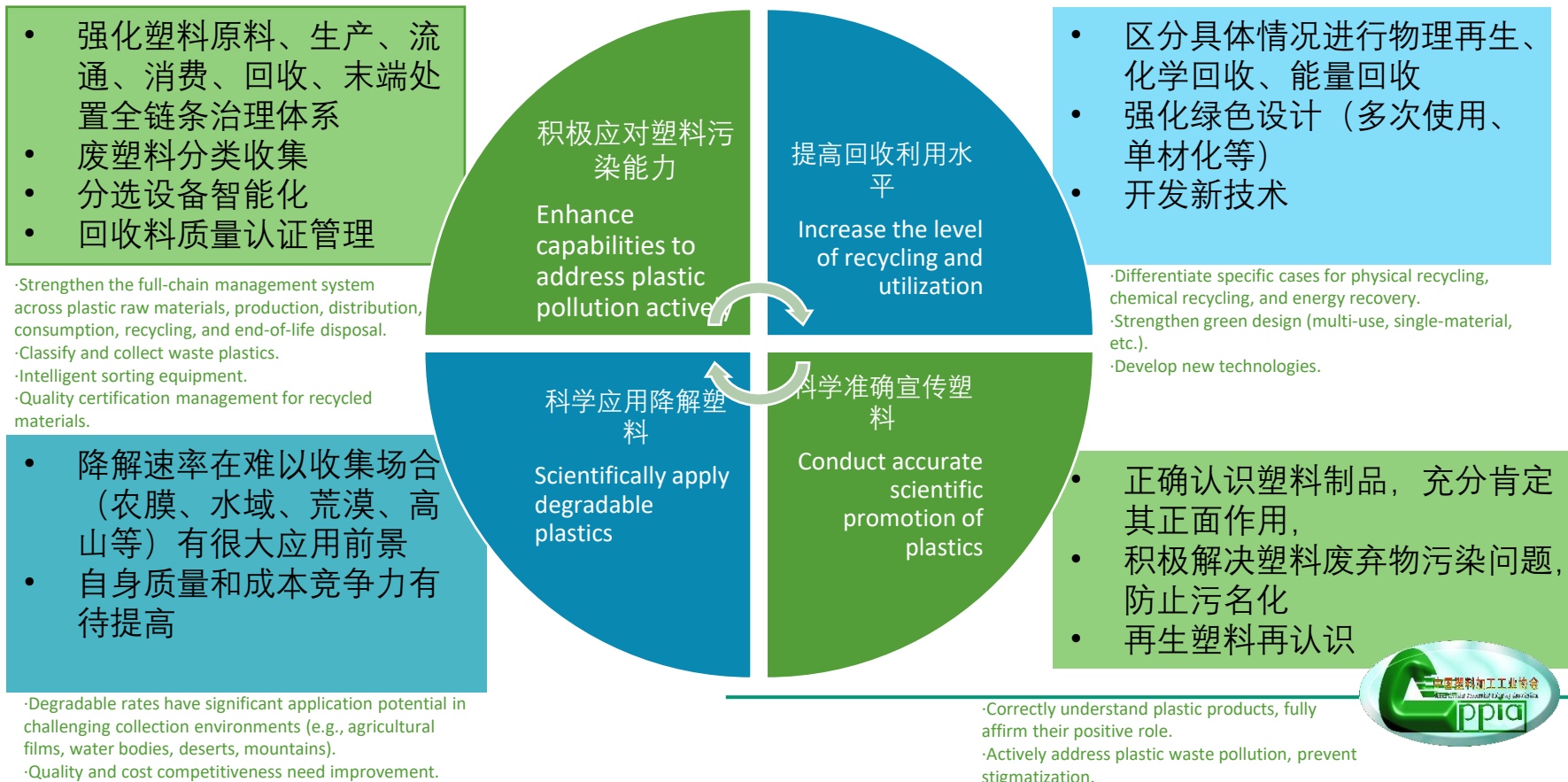
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# 1、公众宣传 Public Awareness

- 举办塑料大讲堂---从2020年开始到现在4年时间我们举办了19次，邀请院士、行业专家宣讲并推广塑料科普知识和塑料废弃物科学合理处理技术等。
- **Plastic Lecture Series** — Since 2020, we have organized 19 sessions over four years, inviting academicians and industry experts to share and promote knowledge about plastics and advanced, scientifically sound methods for handling plastic waste.
- 通过多频次的行业会议，邀请行业专家宣讲塑料与环境友好关系的理念，只要加强回收利用，就会降低塑料在环境的泄露，正因为塑料的使用可以大幅降低环境污染。
- **Industry Conferences** — Through frequent industry conferences, we invite experts to discuss the environmentally friendly nature of plastics. Enhanced recycling can effectively reduce environmental leakage of plastics, and plastic use significantly lowers pollution.
- 联合美团推荐“易回收、易再生”塑料包装容器、降解塑料包装推荐名录。
- **Collaboration with Meituan** — Recommended "easily recyclable and renewable" plastic packaging containers and biodegradable plastic packaging options.
- 成立以院士牵头的“废弃塑料回收及高值化利用”工作组和专家、企业参加的“海洋废塑料防治”工作组
- **Working Groups** — Established a “Waste Plastics Recycling and High-Value Utilization” working group led by academicians and a “Marine Plastic Waste Prevention” group involving experts and enterprises.
- 与中央电视台合作宣传塑料环境友好的观点，有力回击了污名化、妖魔化塑料。
- **Partnership with CCTV** — Collaborated with China Central Television to promote plastics as environmentally friendly, effectively countering the stigmatization and demonization of plastics.
- 开展国际交流活动，共同推进塑料行业的可持续绿色发展。
- **International Exchange Activities** — Engaged in international exchanges to collectively advance sustainable and green development within the plastics industry.



## 2、实现净零排放 Achieving Net-Zero Emissions



### 3、生产者责任延伸制 (EPR) Extended Producer Responsibility (EPR)

我国塑料制品生产企业数量多、分布广、产品覆盖面大，竞争激烈，利润微薄，在现有运行机制下**实行生产者责任延伸制度在责任认定等方面存在难度。**

China has a large number of plastic manufacturing enterprises, widely distributed, covering a broad range of products, with intense competition and minimal profit margins. Implementing an extended producer responsibility (EPR) system under the current operational mechanisms faces challenges, especially in assigning responsibility.

中国拥有以供销社、物资回收利用系统为主，个人废品回收利用从业者为辅的废旧物资回收利用体系，国家对废旧物资回收利用企业也给与了政策支持，在相关地区主导建设了综合性再生资源环保产业园区，**从主渠道上解决了废旧物资再生利用问题，且发挥着主要作用，且废旧物资的回收再生利用率相对较高。**

China has a well-established system dominated by supply and marketing cooperatives and material recycling entities, with supplementary participation from individual waste collectors. The government provides policy support to enterprises involved in recycling waste materials, leading to the establishment of comprehensive renewable resource eco-industrial parks in key regions. This system effectively addresses the recycling of waste materials, achieving relatively high recycling rates.

中国拥有技术十分成熟的再生塑料处理的完整产业链，可以大规模有效处理大量混杂废塑料。废塑料的清洗、分类、造粒到再利用技术和装备很先进，很多再生利用设备出口供国外同行使用，效果很好。**实质上，中国在这方面做的很好，虽然比日本、德国差些，我们继续努力做得更好。**

China possesses a mature, complete industry chain for recycled plastics, capable of large-scale, efficient handling of mixed plastic waste. From washing, sorting, and pelletizing to reuse, the technology and equipment are highly advanced, with many recycling facilities exporting equipment for international use with positive results. China performs well in this regard, though slightly behind Japan and Germany, and continues to improve.



## 4、利用塑料废弃物的策略 Strategies for Utilizing Plastic Waste

### 国家政策

#### National Policies

《“十四五”循环经济发展规划》 The  
14th Five-Year Plan for circular Economy  
development

《“十四五”工业绿色发展规划》 The  
14th Five-Year Plan for Green Industrial  
Development

《“十四五”节能减排综合工作方案》 14th  
Five-Year Plan" Comprehensive Work Plan for  
Energy Conservation and Emission Reduction

### 行业政策

#### Industry Policies

《塑料加工业“十四五”发展规划指导意见》  
Guidance for the 14th Five-Year Development Plan  
of the Plastic Processing Industry

《塑料加工业“十四五”科技创新指导意见》  
Guidance for the 14th Five-Year Scientific and  
Technological Innovation in the Plastic Processing  
Industry

## 4、利用塑料废弃物的策略 Strategies for Utilizing Plastic Waste

我国2015-2023年塑料回收量与回收率测算（单位：万吨）

Estimation of Plastic Recycling Volume and Rate in China (2015-2023) (Unit: 10,000 tons)

年份 Year	2015	2016	2017	2018	2019	2020	2021	2022	2023
项目 Item									
塑料表观消费量（测算） Apparent Plastic Consumption (Estimation)	10790.42	11153.6	11726	11862.9	12600.5	13587.7	13663.8	13582.2	14512
五大通用树脂表观消费量 Apparent Consumption of Five General-Purpose Resins	7005	7421.9	8146.8	8957.7	9600.5	10787.7	10743.8	10782.2	11462
国内塑料用量（测算） Domestic Plastic Usage (Estimation)	6807.13	6849.43	7567.3	7922.9	8097.8	9087.7	8843.8	8482.2	9262
塑料废弃物（测算） Plastic Waste Generation (Estimation)	4139.3	4200	4106.7	3392.3	3848.3	3840	4046.3	4263.3	4102.6
回收量(测算) Recycled Volume (Estimation)	2000	2100	2100	1700	1800	1600	1500	1400	1500
废塑料进口量 Imported Waste Plastics	735.4	734.7	582.9	5.2	0	0	0	0	0
再生利用量 Amount of Recycled Usage	2735.4	2834.7	2682.9	1705.2	1800	1600	1500	1400	1500
再生利用率（%,测算） Recycling Rate (% Estimation)	29.4	28.6	27.7	21.5	22.2	17.6	17	16.5	16.2

- 我国建成的25个再生资源-循环经济产业园中，有21个涉及废弃塑料回收利用。近年来我国再生塑料年产量约1800万吨。
- Recycling Industry Parks — Of the 25 established recycling and circular economy industrial parks, 21 involve plastic waste recycling. In recent years, China's annual production of recycled plastics has reached approximately 18 million tons.

Recycling Rate (% Estimation)



## 4、利用塑料废弃物的策略 Strategies for Utilizing Plastic Waste

- 生产场所：生产过程中的边角料可在线回收，废品不落地实现循环利用，回收利用价值高；生产车间及库房做到清洁生产，塑料粒子及废品得到有序管理，避免环境泄露；
- 社会环境：提升塑料废弃物回收分类水平，提高再利用水平，稳步增加回收料使用比例；
- 技术规范：标准编制《再生塑料 物理回收碳排放量的计算》等；
- 公众宣传：话说塑料大讲堂，行业会议，政策建议，多方合作。
- Production Sites: Scrap materials generated during production can be recycled on-site, ensuring that waste does not accumulate and that the process remains circular, creating high recycling value. Workshops and warehouses adhere to clean production practices, managing plastic particles and waste products in an orderly manner to prevent environmental leakage.
- Social Environment: Enhanced Collection and Sorting — Improve the categorization and recycling level of plastic waste, steadily increasing the use of recycled materials.
- Technical Standards: Development of standards, such as "Recycled Plastics: Calculation of Carbon Emissions in Physical Recycling."
- Public Awareness: Public outreach through Plastic Lecture Series, industry conferences, policy recommendations, and multi-stakeholder collaboration.

我协会对（一次性）塑料包装制品废弃后的处置策略：

首先是**减量化**，从技术层面：产品（配方）设计、生产过程、技术工艺过程中贯彻减量化理念，通过技术进步实现塑料材料的减量化；**我们提倡减少和重复使用塑料袋等一次性塑料制品**；

二是加强回收再利用，包括化学回收和能量回收，通过实施垃圾分类制度将环境中大量废塑料资源化与再利用，这是解决塑料垃圾污染的主要办法和途径；

三是替代——有限的替代，**对部分一次性塑料制品采用生物降解塑料进行替代是可行的**；

四是在成熟的场所和业态层面推行塑料包装押金制度、生产责任制延伸等措施**实现减量化**；

五是在政府相关部门指导下运用综合手段实现塑料包装的减量化、资源化、再利用，推进塑料行业的可持续发展，推进全社会的生态化进程。

**Plastic Packaging Disposal Strategy (Single-Use Products):**

1. Reduction at Source — At the technical level, this entails design, production, and process innovations to achieve plastic material reduction through technological advancements. We advocate for reducing and reusing single-use plastic products such as plastic bags.
2. Enhanced Recycling — This includes chemical recycling and energy recovery. Implementing waste sorting policies enables the transformation of vast amounts of waste plastics into reusable resources, a primary solution to plastic waste pollution.
3. Substitution — Limited substitution through the use of biodegradable plastics in certain single-use plastic applications is feasible.
4. Plastic Deposit Schemes — In mature environments and sectors, introduce deposit schemes for plastic packaging and extend producer responsibility to achieve material reduction.
5. Government-Guided Integrated Approach — Under government guidance, utilize comprehensive measures to achieve reduction, resource optimization, and reuse of plastic packaging, promoting sustainable development within the plastics industry and advancing ecological progress across society.





## 5、OCS

中国OCS网站已上线

China's OCS Website is Now Online

在行业层面，我协会在行业会议、专业会议宣传并督促企业加强塑料粒子的过程管理，特别是PVC粉料在混配、捏合过程中的防止泄露；实际上塑料加工厂目前基本实现自动化密闭上料，泄露事件发生的机率很小。

At the industry level, our association promotes and encourages enterprises to strengthen the management of plastic pellets in processes through industry and professional conferences, particularly to prevent leakage during the mixing and handling of PVC powder. In practice, most plastic processing plants now use automated and sealed feeding systems, making leakage incidents rare.

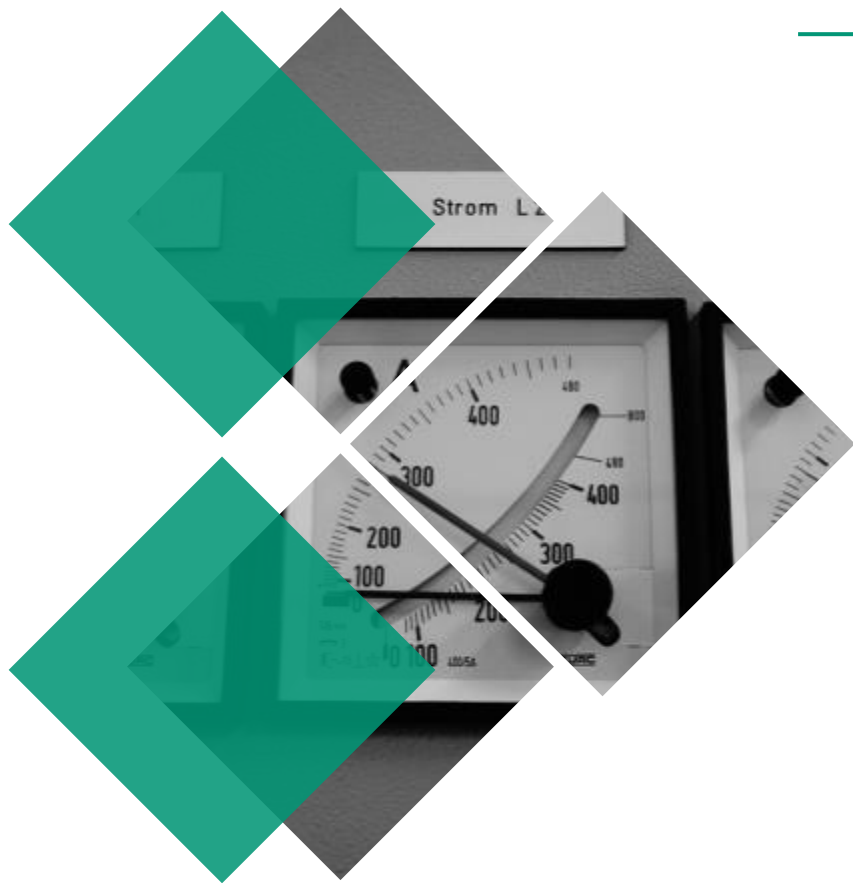
曾经与美国塑料协会达成共识，并签订防止塑料粒子泄露的协议。

We reached a consensus with the American Plastics Association and signed an agreement to prevent plastic pellet leakage.

计划在年底前启动中国OCS项目，并逐步开展OCS相关活动。

Plans are in place to launch the China OCS Project by the end of the year and to gradually conduct OCS-related activities.





感谢各位的聆听

Thanks