

HCA Consulting China Company Ltd.

website: www.hcacchina.com, Email: request@hcacchina.com

ANALYSIS OF POLYETHYLENE RECYCLING MARKET IN CHINA

Dear client,

Polyethylene (PE) is one of the major plastics consumed in China. In 2022, the total consumption in China was 37.5 million tons, and PE recycling rate was 9%. By 2030, PE consumption is expected to be 60.5 million tons with a recycling rate of 20%.

HCA developed a report of Assessment of Polyethylene Recycling Market in China in June 2023.

This report will help clients to understand China's current and future market size of recycled PE, technologies used for PE recycling, policies related to plastic recycling, licenses required, and key players along the value chain.

The list of key players analyzed in this report is in Attachment 1

Key information developed is in details in Attachment 2.

The information is obtained from telephone and field interviews. HCA analyzed the RE recycling market in detail from a third party's perspective.

The report is ready on June 30, 2023.

Subscribers can be prepared with this report to access the market information and the performance of their key competitors, and their future plans.

The costs of the study are listed below

USD 7,000 or RMB 52,500 for English version

- USD 6,000 or RMB 45,000 for Chinese version
- USD 11,000 or RMB 82,500 for both English version and Chinese version

If you would like to subscribe, please email to Dr. Hao Li, Managing Director of HCA Consulting China (request@hcacchina.com)

Sincerely

Dr. Hao Li

Managing Director of HCA

ATTACHMENT 1: LIST OF 10 recycling PE producers and 3 pyrolysis producers

Recycling PE producers				
1	Suzhou Jinhui Technology Materials	Private		
2	Veolia Huafei Polymer Technology (Zhejiang)	JV		
3	Kingfa Sci.& Tech	Public		
4	Jiangxi Handa Plastic Industry	Private		
5	Qingdao Yingtuo Environmental Protection Technology	Private		
6	Shanxi Kerong Renewable Resources Recycling and Utilization	Private		
7	Hunan Zhongsu New Material Technology	Private		
8	Taizhou Haoxin Environmental Protection Technology	Private		
9	Guangxi Wuzhou Guolong Recyclable Resources Development	Private		
10	Ningbo Topcentral New Material	Private		
Pyrolysis producers				
1	Hengyang Tengsheng	Private		
2	Leping Zhongli Renewable Resources	Private		
3	Zhejiang COMY	Private		

ATTACHMENT 2: OUTLINE - ASSESSMENT OF RECYCLED PE MARKET IN CHINA

Objective	The overall objective of the report is to understand
	The overall recycled PE market including supply, demand and end use applications
	Recycled PE value chain
Target products	Recycled PE: HDPE, LDPE
Target companies	Recycled PE producers
Geographic focus	Mainland China
General overview of	Definition of recycled PE
recycled PE	Source of recycled PE
	PE recycling technology
	Physical recycling
	Chemical recycling
	Total recycling volume of plastics in China 2022, volume vs. value
	% of PE recycling
	Comparison of plastic recycling technology
	Physical recycling
	Chemical recycling
	Physical – Chemical recycling
Recycled PE market –	PE consumption and recycling rate, 2022 and 2030
Physical recycling	Different types of PE recycled, 2022 and 2030
	Recycled HDPE
	Recycled LDPE
	Recycled LLDPE

```
Virgin PE finished products and recycled PE
```

HDPE/LDPE/LLDPE

Key end use applications of recycled PE

HDPE/LDPE/LLDPE

Name of key customers (best effort)

Key raw material sources

Difficulty of collection

Recycling rate

General supply chain for recycled PE

Source

Value chain

Participant

Number of players

Examples of key players

Roles played

Recycled PE shipment and storage

Recycling process and technology used

Step 1: sorting of plastics and non-plastics

Step 2: sorting PE and other plastics

Step 3: sorting HDPE/LDPE/LLDPE

Recycled PE processing technology

Hard plastics vs. flexible plastics

Key equipment suppliers of PE recycling

Recycling process of HDPE, LDPE and LLDPE

Collection

Sorting

```
Processing
```

Recycled PE market volume in 2022 and 2030, by product type (HDPE, LDPE, LLDPE)

Production

PE consumption

Recycling rate, %

Recycled PE output

Recycled PE capacity

Utilization rate, %

Import

Key sources

Export

Local consumption

Key drivers for recycled PE future growth

Market size and development

Standardization of the recycling industry

Profitability of the industry

Declined imports of recycled PE

Price of recycled PE

Downstream market demand

Policy impacts

Key barriers for recycled pe future growth

Price vs. performance

Competitive materials

Government regulations

Certification

	,
Recycled PE market – chemical recycling	Chemical recycling process for waste plastics Typical chemical recycling plastics and their applications Waste PET Waste polyolefin Overview of the market for producing pyrolysis oil from waste PE Key players and their operations Market size Related patents Related policies
Recycled PE producer analysis (10 companies)	Name of the company Background information Ownership Headquarter Manufacturing site(s) Website Main business of the company PE recycling history Major product categories Types of recycled PE Recycled PE production in 2022, by product type (HDPE, LDPE, LLDPE) Capacity, MT/year Output, MT Export, MT Local sales, MT Description of recycled PE end use applications

	Source of recycled PE technologies Raw materials sourcing Certification of recycled PE Price of recycled PE Expansion plan
Pyrolysis oil producer analysis (3 companies)	Name of the company Background information Ownership Headquarter Manufacturing site(s) Website Main business of the company Pyrolysis oil production history Pyrolysis oil production in 2022 Capacity, MT/year Output, MT Export, MT Local sales, MT Description of recycled PE end use applications Raw materials sourcing Pyrolysis oil price Expansion plan