

**Post-Consumer Recycled Plastics Market by Source (Bottles, Non-bottle Rigid), Polymer Type, Processing Type (Mechanical, Chemical, Biological), End-use (Packaging, Building & Construction, Automotive, Electronics), and Region - Global Forecast to 2029**

Market Report | 2024-10-29 | 365 pages | MarketsandMarkets

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**Report description:**

The post-consumer recycled plastics market size is projected to grow from USD 71.44 billion in 2024 to USD 106.97 billion by 2029, at a CAGR of 8.4%. Post consumer recycled (PCR) plastics have been projected for significant growth due to various factors. Rising concern for environmental conservation is putting a lot of pressure on consumers and industries to embrace circular economy and eradicate plastic waste. National governments across the globe are implementing stricter regulations and policies aimed to curb plastics from polluting the environment which further encourages the use of recycled materials in packaging and manufacturing. Also, leading brands and organizations are optimistic about their sustainability targets mainly in the use of a higher proportion of PCR plastics in their products and containers. Current innovations in recycling technology are also helping in enhancing the quality and supply of PCR plastics, hence making them more applicable in broader range of applications. This growing need for recycled plastics by various end-use industries is further propelled by consumer preferences for sustainable products. All these factors combinely will create an optimistic atmosphere where the adoption of post-consumers recycled plastics is not only environmentally responsible but also economically beneficial, positioning the market for rapid expansion.

"Non-bottle Rigid to be the second fastest growing source during the forecast period."

Non-bottle rigid plastics serve as a major source of post-industrial recycled plastics because of their importance in applications other than bottles. Non-bottle rigid plastics for instance containers, caps, closures, packaging trays, and parts used in automobiles lead to the build-up of discarded non-bottle rigid plastics. These materials, which often consist of various polymer types, are difficult to recycle because of the complex structure of their compounds. However, new approaches to sorting and recycling

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technologies are facilitating the separation and recycling of non-bottle rigid plastics thus minimizing waste, and encouraging sustainable practices among various industries that use these highly useful products.

"The Polypropylene (PP) to be the fastest growing polymer type in the post-consumer recycled plastics market."

Polypropylene is among the key polymer types in the post-consumer recycled plastics market which is experiencing the highest growth rate because of its wide applicability, growing consumer concerns for environment, and improvements in recycling facilities. This rising demand is because industries are now realizing the possibility of using recycled PP in different areas such as packaging, automotive and consumer products. In addition to this, the difficulties encountered in the recycling of PP waste have been solved by the developments in recycling technologies, making it more feasible to recycle PP for reintegration back into the manufacturing process and this has accelerated its growth of post-consumer recycled plastics.

"The mechanical processing holds the largest market share in the post-consumer recycled plastics market."

Mechanical recycling has specific advantages in the recycling of plastics especially in terms of energy efficiency, environmental impact, and retaining polymer properties. Mechanical recycling is also more efficient in terms of energy consumption than chemical recycling as it involves sorting, cleaning, and reprocessing to recover the material. Furthermore, this approach does not introduce new chemicals and preserves the inherent properties of the polymer; thus, recycled plastics do not lose their original properties and retain their original quality and performance and can further be used in different applications, thus contributing to resource conservation and proper waste management practices.

"The building & construction application holds the second largest market share in post-consumer recycled plastics market."

The use of recycled plastics in building and construction products is gradually growing because of the sector's growing concern with sustainability, resources efficiency, and plastics waste reduction. The use of post-consumer recycled plastics in construction materials have benefits like, reduced dependence on virgin materials, lower levels of landfill disposal and potential energy savings during production of plastics products. Demand for recycled plastics grows as the industry seeks eco-friendly solution for applications such as insulation, roofing and structural elements, aligning with sustainable building practices and addressing environmental concerns associated with traditional construction materials.

"Europe is the second biggest market in post-consumer recycled plastics market."

Currently, the post-consumer recycled plastics market is rapidly developing, especially in Europe, mainly due to the strong regulatory framework and commitment to environmental sustainability. Newer laws like EU's goals towards controlling the plastic waste and recycling are forcing industries to opt for environment friendly solutions like recycling of plastics. Such a regulatory pressure coupled with increased concern for the detrimental effect of plastic wastage to the environment is driving the shift towards the circular economy. Customers in Europe are now pressing for sustainable goods and services, and this has led to an increased adoption of post-consumer plastics in various industries such as packaging, automotive, and electronics. Consequently, the availability of recycled plastics is rising, aligning with both regulatory requirements and consumer preferences for more sustainable alternatives. This market demand and convergence of policy is driving the post-consumer recycled plastics market in the region.

Extensive primary interviews were conducted to determine and verify the market size for several segments and sub-segments and the information gathered through secondary research.

The break-up of primary interviews is given below:

By Company Type: Tier 1: 45%, Tier 2: 37%, and Tier 3: 18%

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By Designation: C-level Executives: 54%, Directors: 28%, and Others: 18%

By Region: North America: 44%, Europe: 31%, Asia Pacific: 25%,

Notes: Others include sales, marketing, and product managers.

Tier 1: >USD 1 Billion; Tier 2: USD 500 million-1 Billion; and Tier 3: <USD 500 million

Companies Covered Veolia (France), Suez SA (France), WM Intellectual Property Holdings, L.L.C. (US), Republic Services (US), Waste Connections (Canada), Biffa (UK), Clean Harbors, Inc. (US), Stericycle, Inc. (US), Remondis SE & Co. KG (Germany), DS Smith plc (UK) are covered in the post-consumer recycled plastics market.

The study includes an in-depth competitive analysis of these key players in the post-consumer recycled plastics market, with their company profiles, recent developments, and key market strategies

#### Research Coverage

This research report categorizes the post-consumer recycled plastics market by source, (Bottle, Non-bottle rigid, and Others), by processing type, (mechanical, chemical and biological), by application (packaging, building & construction, automotive, electronics and other end-use applications), polymer type (polyethylene terephthalate (PET), high-density polyethylene (HDPE), low-density polyethylene (LDPE), polypropylene (PP), polyurethane (PUR), polyvinyl chloride (PVC), polystyrene (PS), and other polymers) and by region (Asia Pacific, North America, Europe, South America, and Middle East & Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the post-consumer recycled plastics market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; Contracts, partnerships, agreements. new product & service launches, mergers and acquisitions, and recent developments associated with the post-consumer recycled plastics market. Competitive analysis of upcoming startups in the post-consumer recycled plastics market ecosystem is covered in this report.

#### Reasons to buy the report

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall post-consumer recycled plastics market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

? Analysis of key drivers (Implementation of stringent regulations related to environmental safety, Increasing number of awareness programs for sustainable waste management, Growing urban population, Rising consumer preference for sustainable products), restraints (Non-compliance with plastic waste management in residential sector, Absence of framework for plastic waste collection and segregation, Lack of adequate recycling facilities), opportunities (Growing demand for plastic waste management in emerging economies, Increased R&D investments in plastic recycling technologies, Rise in public-private partnerships (PPPs) for plastic waste management) and challenges (High recycling cost, and Challenges associated with supply chain management).

? Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the post-consumer recycled plastics market

? Market Development: Comprehensive information about profitable markets - the report analyses the post-consumer recycled plastics market across varied regions.

? Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the post-consumer recycled plastics market.

? Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players Veolia (France), Suez SA (France), WM Intellectual Property Holdings, L.L.C. (US), Republic Services (US), Waste Connections, Inc. (Canada), Biffa (UK), Clean Harbors, Inc. (US), Stericycle, Inc. (US), Remondis SE & Co. KG (Germany), and DS Smith plc (UK), and

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among others in the post-consumer recycled plastics market.

## Table of Contents:

1	INTRODUCTION	31
1.1	STUDY OBJECTIVES	31
1.2	MARKET DEFINITION	31
1.3	STUDY SCOPE	32
1.3.1	MARKETS COVERED AND REGIONAL SCOPE	32
1.3.2	YEARS CONSIDERED	33
1.3.3	INCLUSIONS AND EXCLUSIONS	33
1.3.4	CURRENCY CONSIDERED	33
1.3.5	UNIT CONSIDERED	34
1.4	STAKEHOLDERS	34
1.5	SUMMARY OF CHANGES	34
2	RESEARCH METHODOLOGY	35
2.1	RESEARCH DATA	35
2.1.1	SECONDARY DATA	36
2.1.1.1	Key data from secondary sources	36
2.1.2	PRIMARY DATA	36
2.1.2.1	Key data from primary sources	37
2.1.2.2	Key industry insights	37
2.1.2.3	Breakdown of primary interviews	38
2.2	MARKET SIZE ESTIMATION	38
2.2.1	APPROACH 1: MARKET SIZE ESTIMATION, BY VOLUME	40
2.2.2	APPROACH 2: MARKET SIZE ESTIMATION, BY VALUE	40
2.3	DATA TRIANGULATION	41
2.4	FACTOR ANALYSIS	42
2.5	RESEARCH ASSUMPTIONS	42
2.6	RESEARCH LIMITATIONS AND RISK ASSESSMENT	43
3	EXECUTIVE SUMMARY	44
4	PREMIUM INSIGHTS	48
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN POST-CONSUMER RECYCLED PLASTICS MARKET	48
4.2	ASIA PACIFIC POST-CONSUMER RECYCLED PLASTICS MARKET, BY END-USE APPLICATION AND COUNTRY	49
4.3	POST-CONSUMER RECYCLED PLASTICS MARKET, BY SOURCE	49
4.4	POST-CONSUMER RECYCLED PLASTICS MARKET, BY POLYMER TYPE	50
4.5	POST-CONSUMER RECYCLED PLASTICS MARKET, BY PROCESSING TYPE	50
4.6	POST-CONSUMER RECYCLED PLASTICS MARKET, BY END-USE APPLICATION	51
4.7	POST-CONSUMER RECYCLED PLASTICS MARKET, BY COUNTRY	51
5	MARKET OVERVIEW	52
5.1	INTRODUCTION	52
5.2	MARKET DYNAMICS	53
5.2.1	DRIVERS	53
5.2.1.1	Implementation of stringent regulations related to environmental safety	53
5.2.1.2	Increasing number of awareness programs for sustainable waste management	55
5.2.1.3	Growing urban population	55
5.2.1.4	Rising consumer preference for sustainable products	57

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5.2.2	RESTRAINTS	58
5.2.2.1	Non-compliance with plastic waste management in residential sector	58
5.2.2.2	Absence of framework for plastic waste collection and segregation	58
5.2.2.3	Lack of adequate recycling facilities	59
5.2.3	OPPORTUNITIES	61
5.2.3.1	Growing demand for plastic waste management in emerging economies	61
5.2.3.2	Increased research and development (R&D) investments in plastic recycling technologies	61
5.2.3.3	Rise in public-private partnerships (PPPs) for plastic waste management	62
5.2.4	CHALLENGES	62
5.2.4.1	High recycling cost	62
5.2.4.2	Challenges associated with supply chain management	63
6	INDUSTRY TRENDS	64
6.1	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	64
6.2	PRICING ANALYSIS	66
6.2.1	AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY APPLICATION	66
6.2.2	AVERAGE SELLING PRICE TREND, BY REGION	67
6.3	VALUE CHAIN ANALYSIS	68
6.4	ECOSYSTEM ANALYSIS	71
6.5	IMPACT OF GEN AI ON POST-CONSUMER RECYCLED PLASTICS MARKET	73
6.6	TECHNOLOGY ANALYSIS	74
6.6.1	KEY TECHNOLOGIES	74
6.6.1.1	Mechanical recycling	74
6.6.1.2	Chemical recycling	74
6.6.2	COMPLEMENTARY TECHNOLOGIES	75
6.6.2.1	Advanced sorting and separation technologies	75
6.6.2.2	Plastic-to-fuel (energy recovery)	75
6.6.2.3	Blockchain for traceability and transparency	75
	?	
6.7	PATENT ANALYSIS	75
6.7.1	INTRODUCTION	75
6.7.2	METHODOLOGY	75
6.7.3	PATENT ANALYSIS	76
6.8	TRADE ANALYSIS	79
6.8.1	EXPORT DATA (HS CODE 3915)	79
6.8.2	IMPORT SCENARIO (HS CODE 3915)	80
6.9	KEY CONFERENCES AND EVENTS, 2024-2025	81
6.10	TARIFF AND REGULATORY LANDSCAPE	82
6.10.1	TARIFF ANALYSIS (HS CODE 3915)	82
6.10.2	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	83
6.10.3	STANDARDS AND REGULATIONS RELATED TO POST-CONSUMER RECYCLED PLASTICS INDUSTRY	88
6.10.3.1	Ban & Restriction - To Reduce Impact of Certain Plastic Products on Environment	88
6.10.3.2	Economic Instruments Have Impacted Plastic Usage and Behavior Patterns	89
6.10.3.3	Standardization - Criteria and Guidelines for Quality, Safety, and Acceptability of Products	89
6.10.3.4	Guidance for Industry - Use of Recycled Plastics in Food Packaging	89
6.10.3.5	Resource Conservation and Recovery Act (RCRA)	90
6.10.3.6	ISO 15270	90
6.11	PORTER'S FIVE FORCES ANALYSIS	91

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- 6.11.1 THREAT OF NEW ENTRANTS 92
- 6.11.2 THREAT OF SUBSTITUTES 92
- 6.11.3 BARGAINING POWER OF SUPPLIERS 93
- 6.11.4 BARGAINING POWER OF BUYERS 93
- 6.11.5 INTENSITY OF COMPETITIVE RIVALRY 93
- 6.12 KEY STAKEHOLDERS AND BUYING CRITERIA 94
- 6.12.1 KEY STAKEHOLDERS IN BUYING PROCESS 94
- 6.12.2 BUYING CRITERIA 95
- 6.13 CASE STUDY ANALYSIS 96
- 6.13.1 HP AND SLS COLLABORATED TO ACHIEVE CIRCULAR ECONOMY BY LOWERING ENVIRONMENTAL IMPACTS AND FACILITATING RESOURCE RECOVERY AND REUSE 96
- 6.13.2 GERMANY ACHIEVED PLASTIC PACKAGING RECYCLING RATE OF 63% IN 2022 96
- 6.13.3 FLIGHT GROUP SET UP FIRST PET-WASH PLANT IN NEW ZEALAND 97
- 6.14 MACROECONOMIC ANALYSIS 97
- 6.14.1 INTRODUCTION 97
- 6.14.2 GDP TRENDS AND FORECASTS 97
- 6.14.3 CONSTRUCTION INDUSTRY AS PERCENTAGE OF GDP 98
- 6.14.4 GLOBAL AUTOMOBILE PRODUCTION AND GROWTH 99
- 6.15 INVESTMENT AND FUNDING SCENARIO 101
- 7 POST-CONSUMER RECYCLED PLASTICS MARKET, BY POLYMER TYPE 102
- 7.1 INTRODUCTION 103
- 7.2 POLYPROPYLENE (PP) 106
- 7.2.1 HEAT RESISTANCE PROPERTY TO DRIVE DEMAND 106
- 7.3 LOW-DENSITY POLYETHYLENE (LDPE) 106
- 7.3.1 HIGH FLEXIBILITY AND ELASTICITY TO FUEL DEMAND 106
- 7.4 HIGH-DENSITY POLYETHYLENE (HDPE) 107
- 7.4.1 HIGH TENSILE STRENGTH AND EXCELLENT CHEMICAL PROPERTIES TO DRIVE DEMAND 107
- 7.5 POLYVINYL CHLORIDE (PVC) 107
- 7.5.1 LOW MOISTURE ABSORPTION FEATURE TO PROPEL DEMAND 107
- 7.6 POLYURETHANE (PUR) 107
- 7.6.1 EXCELLENT ELECTRICAL INSULATING PROPERTIES TO DRIVE DEMAND 107
- 7.7 POLYSTYRENE (PS) 108
- 7.7.1 EASE OF PROCESSING TO FUEL DEMAND 108
- 7.8 POLYETHYLENE TEREPHTHALATE (PET) 108
- 7.8.1 HIGH STRENGTH-TO-WEIGHT RATIO TO BOOST DEMAND 108
- 7.9 OTHER POLYMER TYPES 109
- 8 POST-CONSUMER RECYCLED PLASTICS MARKET, BY SOURCE 110
- 8.1 INTRODUCTION 111
- 8.2 BOTTLES 113
- 8.2.1 PRESENCE OF ROBUST RECYCLING INFRASTRUCTURE TO DRIVE MARKET 113
- 8.3 NON-BOTTLE RIGID 113
- 8.3.1 ADVANCEMENTS IN SORTING AND PROCESSING TECHNIQUES TO DRIVE MARKET 113
- 8.4 OTHER SOURCES 114
- 9 POST-CONSUMER RECYCLED PLASTICS MARKET, BY END-USE APPLICATION 115
- 9.1 INTRODUCTION 116
- 9.2 PACKAGING 118
- 9.2.1 STRINGENT REGULATIONS REGARDING REUSE OF PLASTIC PACKAGING TO DRIVE MARKET 118

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9.3	BUILDING & CONSTRUCTION	118
9.3.1	USE OF ECO-FRIENDLY CONSTRUCTION MATERIALS TO FUEL MARKET GROWTH	118
9.4	AUTOMOTIVE	118
9.4.1	ADOPTION OF RECYCLED PLASTICS IN AUTOMOBILE MANUFACTURING TO DRIVE MARKET	118
9.5	ELECTRONICS	119
9.5.1	IMPLEMENTATION OF RECYCLED PLASTICS IN ELECTRONICS TO DRIVE MARKET	119
9.6	OTHER END-USE APPLICATIONS	119
10	POST-CONSUMER RECYCLED PLASTICS MARKET, BY PROCESSING TYPE	120
10.1	INTRODUCTION	121
10.2	CHEMICAL PROCESS	123
10.2.1	RISING ADOPTION OF CHEMICAL RECYCLING TO DRIVE MARKET	123
10.2.1.1	Chemolysis	123
10.2.1.2	Pyrolysis	123
10.2.1.3	Hydrogen technologies	123
10.2.1.4	Gasification	123
10.3	MECHANICAL PROCESS	124
10.3.1	USE IN COMMERCIAL AND INDUSTRIAL SECTORS TO DRIVE MARKET	124
10.4	BIOLOGICAL PROCESS	124
10.4.1	INCREASING DEMAND FOR ENVIRONMENTALLY FRIENDLY PRODUCTS TO FUEL MARKET GROWTH	124
11	POST-CONSUMER RECYCLED PLASTICS MARKET, BY REGION	125
11.1	INTRODUCTION	126
11.2	NORTH AMERICA	128
11.2.1	US	135
11.2.1.1	High demand for plastic products and packaging to drive market	135
11.2.2	CANADA	139
11.2.2.1	Government-led efforts toward plastic recycling to drive market	139
11.2.3	MEXICO	144
11.2.3.1	Increasing demand for convenience food & beverages to fuel market growth	144
11.3	EUROPE	148
11.3.1	GERMANY	157
11.3.1.1	Rising adoption of advanced plastic recycling technologies to drive market	157
11.3.2	UK	161
11.3.2.1	Growing awareness regarding sustainability to drive market	161
11.3.3	FRANCE	165
11.3.3.1	Presence of prominent plastic recycling companies to fuel market growth	165
11.3.4	ITALY	169
11.3.4.1	Expanding plastic packaging industry to drive market	169
11.3.5	RUSSIA	173
11.3.5.1	Improved recycling capabilities to drive market	173
11.3.6	REST OF EUROPE	177
	?	
11.4	ASIA PACIFIC	180
11.4.1	CHINA	189
11.4.1.1	Rapid industrialization and urbanization to drive market	189
11.4.2	JAPAN	194
11.4.2.1	Rising emphasis on plastic waste management to fuel market growth	194
11.4.3	INDIA	198

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11.4.3.1	Growing adoption of sustainable practices to propel market	198
11.4.4	SOUTH KOREA	203
11.4.4.1	Favorable government policies for plastic recycling to drive market	203
11.4.5	VIETNAM	207
11.4.5.1	Rising focus on curbing plastic pollution and untapped market potential to drive market	207
11.4.6	REST OF ASIA PACIFIC	211
11.5	MIDDLE EAST & AFRICA	215
11.5.1	GCC COUNTRIES	222
11.5.1.1	Saudi Arabia	225
11.5.1.1.1	Government-led initiatives to mitigate environmental degradation to drive market	225
11.5.1.2	Rest of GCC countries	229
11.5.2	SOUTH AFRICA	232
11.5.2.1	Expanding middle-class population to drive market	232
11.5.3	EGYPT	236
11.5.3.1	Improved waste management practices to boost market growth	236
11.5.4	REST OF MIDDLE EAST & AFRICA	240
11.6	SOUTH AMERICA	244
11.6.1	BRAZIL	251
11.6.1.1	Rapid development of plastic packaging industry to drive market	251
11.6.2	ARGENTINA	255
11.6.2.1	Booming food & beverage industry to fuel market growth	255
11.6.3	REST OF SOUTH AMERICA	259
12	COMPETITIVE LANDSCAPE	263
12.1	OVERVIEW	263
12.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	263
12.3	MARKET SHARE ANALYSIS	265
12.4	RANKING ANALYSIS	267
12.5	REVENUE ANALYSIS	269
12.6	COMPANY VALUATION AND FINANCIAL METRICS	269
12.7	BRAND/PRODUCT COMPARISON	270
	?	
12.8	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	272
12.8.1	STARS	272
12.8.2	EMERGING LEADERS	272
12.8.3	PERVASIVE PLAYERS	272
12.8.4	PARTICIPANTS	272
12.8.5	COMPANY FOOTPRINT: KEY PLAYERS, 2023	274
12.8.5.1	Company footprint	274
12.8.5.2	Source footprint	274
12.8.5.3	Polymer type footprint	275
12.8.5.4	End-use application footprint	276
12.8.5.5	Region footprint	276
12.9	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	277
12.9.1	PROGRESSIVE COMPANIES	277
12.9.2	RESPONSIVE COMPANIES	277
12.9.3	DYNAMIC COMPANIES	277
12.9.4	STARTING BLOCKS	277

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12.9.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023	279
12.9.5.1	Detailed list of key startups/SMEs	279
12.9.5.2	Competitive benchmarking of key startups/SMEs	281
12.10	COMPETITIVE SCENARIO	284
12.10.1	PRODUCT LAUNCHES	284
12.10.2	DEALS	285
12.10.3	EXPANSIONS	289
12.10.4	OTHERS	291
13	COMPANY PROFILES	292
13.1	KEY PLAYERS	292
13.1.1	VEOLIA	292
13.1.1.1	Business overview	292
13.1.1.2	Products/Solutions/Services offered	293
13.1.1.3	Recent developments	294
13.1.1.3.1	Product launches	294
13.1.1.3.2	Deals	294
13.1.1.3.3	Others	296
13.1.1.4	MnM view	297
13.1.1.4.1	Key strengths/Right to win	297
13.1.1.4.2	Strategic choices	297
13.1.1.4.3	Weaknesses/Competitive threats	297
	?	
13.1.2	SUEZ SA	298
13.1.2.1	Business overview	298
13.1.2.2	Products/Solutions/Services offered	298
13.1.2.3	Recent developments	299
13.1.2.3.1	Deals	299
13.1.2.3.2	Expansions	300
13.1.2.4	MnM view	301
13.1.2.4.1	Key strengths/Right to win	301
13.1.2.4.2	Strategic choices	301
13.1.2.4.3	Weaknesses/Competitive threats	302
13.1.3	REMONDIS SE & CO. KG	303
13.1.3.1	Business overview	303
13.1.3.2	Products/Solutions/Services offered	303
13.1.3.3	Recent developments	304
13.1.3.3.1	Deals	304
13.1.3.3.2	Expansions	306
13.1.3.4	MnM view	306
13.1.3.4.1	Key strengths/Right to win	306
13.1.3.4.2	Strategic choices	307
13.1.3.4.3	Weaknesses/Competitive threats	307
13.1.4	WM INTELLECTUAL PROPERTY HOLDINGS, L.L.C.	308
13.1.4.1	Business overview	308
13.1.4.2	Products/Solutions/Services offered	309
13.1.4.3	Recent developments	310
13.1.4.3.1	Deals	310

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- 13.1.4.3.2 Expansions 311
- 13.1.4.4 MnM view 312
- 13.1.4.4.1 Key strengths/Right to win 312
- 13.1.4.4.2 Strategic choices 312
- 13.1.4.4.3 Weaknesses/Competitive threats 312
- 13.1.5 REPUBLIC SERVICES 313
- 13.1.5.1 Business overview 313
- 13.1.5.2 Products/Solutions/Services offered 315
- 13.1.5.3 Recent developments 315
- 13.1.5.3.1 Deals 315
- 13.1.5.3.2 Expansions 316
- 13.1.5.4 MnM view 317
- 13.1.5.4.1 Key strengths/Right to win 317
- 13.1.5.4.2 Strategic choices 317
- 13.1.5.4.3 Weaknesses/Competitive threats 317
- ?
- 13.1.6 WASTE CONNECTIONS 318
- 13.1.6.1 Business overview 318
- 13.1.6.2 Products/Solutions/Services offered 320
- 13.1.6.3 Recent developments 320
- 13.1.6.3.1 Deals 320
- 13.1.6.4 MnM view 321
- 13.1.6.4.1 Key strengths/Right to win 321
- 13.1.6.4.2 Strategic choices 321
- 13.1.6.4.3 Weaknesses/Competitive threats 321
- 13.1.7 BIFFA 322
- 13.1.7.1 Business overview 322
- 13.1.7.2 Products/Solutions/Services offered 322
- 13.1.7.3 Recent developments 323
- 13.1.7.3.1 Deals 323
- 13.1.7.3.2 Expansions 324
- 13.1.7.4 MnM view 324
- 13.1.7.4.1 Key strengths/Right to win 324
- 13.1.7.4.2 Strategic choices 324
- 13.1.7.4.3 Weaknesses/Competitive threats 324
- 13.1.8 CLEAN HARBORS, INC. 325
- 13.1.8.1 Business overview 325
- 13.1.8.2 Products/Solutions/Services offered 326
- 13.1.8.3 Recent developments 327
- 13.1.8.3.1 Deals 327
- 13.1.8.4 MnM view 327
- 13.1.8.4.1 Key strengths/Right to win 327
- 13.1.8.4.2 Strategic choices 327
- 13.1.8.4.3 Weaknesses/Competitive threats 328
- 13.1.9 STERICYCLE, INC. 329
- 13.1.9.1 Business overview 329
- 13.1.9.2 Products/Solutions/Services offered 330

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13.1.9.3	Recent developments	331
13.1.9.3.1	Product launches	331
13.1.9.4	MnM view	331
13.1.10	DS SMITH	332
13.1.10.1	Business overview	332
13.1.10.2	Products/Solutions/Services offered	333
13.1.10.3	MnM view	334
	?	
13.2	OTHER PLAYERS	335
13.2.1	REVITAL POLYMERS, INC.	335
13.2.2	B&B PLASTICS, INC.	336
13.2.3	FRESH PAK CORPORATION	337
13.2.4	B. SCHOENBERG & CO., INC.	338
13.2.5	CUSTOM POLYMERS, INC.	338
13.2.6	VAN WERVEN RECYCLING BV	339
13.2.7	DALMIA POLYPRO INDUSTRIES PVT. LTD.	340
13.2.8	MERLIN PLASTICS	341
13.2.9	PLASTREC	342
13.2.10	LUCRO PLASTECYCLE PRIVATE LIMITED	343
13.2.11	ENVISION PLASTICS INDUSTRIES LLC	344
13.2.12	JAYPLAS	345
13.2.13	PLASTIPAK HOLDINGS, INC.	346
13.2.14	KW PLASTICS	347
13.2.15	MBA POLYMERS	348
13.2.16	BANYAN NATION	349
13.2.17	DEPOLY	350
13.2.18	UBQ	351
13.2.19	REPEAT PLASTICS AUSTRALIA PTY LTD	352
13.2.20	NOVOLOOP	353
14	ADJACENT AND RELATED MARKET	354
14.1	INTRODUCTION	354
14.2	LIMITATIONS	354
14.3	RECYCLED PLASTICS MARKET	354
14.3.1	MARKET DEFINITION	354
14.3.2	MARKET OVERVIEW	355
15	APPENDIX	357
15.1	DISCUSSION GUIDE	357
15.2	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	361
15.3	CUSTOMIZATION OPTIONS	363
15.4	RELATED REPORTS	363
15.5	AUTHOR DETAILS	364

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