

**Battery Recycling Market by Source (Automotive Batteries, Industrial Batteries, Consumer & Electronic Appliance Batteries), Chemistry (Lead Acid, Lithium-based, Nickel-based), Material (Metals, Electrolyte, Plastics) and Region - Global Forecast to 2030**

Market Report | 2023-06-13 | 264 pages | MarketsandMarkets

**AVAILABLE LICENSES:**

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

**Report description:**

The battery recycling market is projected to grow from USD 26.9 billion in 2023 to USD 54.3 billion by 2030, at a CAGR of 10.5%. The battery recycling market is on the way to intense growth across different industries such as automotive, electronics, and energy storage. The market involves the collection, processing, and recycling of various types of batteries, such as lead-acid, lithium-based, nickel-based, sodium-based, and alkaline batteries to support the circular economy.

"By source, industrial batteries segment accounted for the second-largest share in battery recycling market in 2022."

The industrial batteries segment held the second-largest share in 2022. The growth of this segment can be attributed to the requirement of battery recycling in the industrial sector due to the rising need for energy storage devices such as large-scale batteries used for grid stabilization and integration of renewable energy sources. Effective battery end-of-life management is necessary as more industrial sites install energy storage devices. Spent batteries can be recycled to recover important materials, maintaining a steady supply for future energy storage projects.

"By chemistry, the lithium-based batteries segment accounted for the second-largest share in battery recycling market in 2022."

The lithium-based chemistry segment held the second-largest share in 2022. Batteries made of lithium are essential for storing renewable energy and ensuring a steady supply of power, which helps the battery market expand. Recycling lithium-based batteries can result in significant energy and cost savings. Also, the recycling process uses less resources compared to the extraction and refining of raw materials. These factors further fuel the need for battery recycling of lithium-based batteries.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

"The battery recycling market in Europe accounted for the second-largest share in 2022."

Europe has set strict legislation and guidelines in order to ensure the management of batteries, including their collection, recycling, and disposal. The Battery Directive of the European Union promotes a circular economy by setting specified goals for the collecting and recycling of batteries. The growth of battery recycling in Europe is significantly impacted by compliance with these restrictions, as businesses strive to reach recycling goals and avoid penalties.

Profile break-up of primary participants for the report:

- By Company Type: Tier 1 - 65%, Tier 2 -20%, and Tier 3 - 15%

- By Designation: C-level Executives - 25%, Directors - 30%, and Others - 45%

- By Region: North America - 30%, Europe -20%, Asia Pacific - 40%, Middle East & Africa-7%, South America -3%

The battery recycling report is dominated by players, such as ACCUREC Recycling GmbH (Germany), American Battery Technology Company (US), Aqua Metals, Inc. (US), Call2Recycle, Inc. (US), Cirba Solutions (US), Contemporary Amperex Technology Co., Limited (China), East Penn Manufacturing Company (US), Ecobat (US), Element Resources (US), EnerSys (US), Exide Industries Ltd. (India), Fortum (Finland), GEM Co., Ltd. (China), Glencore (Switzerland), Gopher Resource (US), Gravita India Limited (India), Li-Cycle Corp. (Canada), Neometals Ltd. (Australia), Raw Materials Company (Canada), RecycliCo Battery Materials Inc. (Canada), Redwood Materials Inc. (US), Shenzhen Highpower Technology Co., Ltd. (China), Stena Recycling (Sweden), TES (Singapore), Terrapure (Canada), The Doe Run Company (US), The International Metals Reclamation Company (US), and Umicore (Belgium), and others

Research Coverage:

The report defines, segments, and projects the size of the battery recycling market based on source, chemistry, and region. It strategically profiles the key players and comprehensively analyzes their market share and core competencies. It also tracks and analyzes competitive developments, such as partnership, agreement, and expansion undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants in the market by providing them with the closest approximations of revenue numbers of the battery recycling market and its segments. This report is also expected to help stakeholders obtain an improved understanding of the competitive landscape of the market, gain insights to improve the position of their businesses and make suitable go-to-market strategies. It also enables stakeholders to understand the pulse of the market and provide them information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (increase in demand for electric vehicles), restraints (safety issues related to the storage and transportation of spent batteries), opportunities (growing demand for renewable energy storage), and challenges (high cost of recycling and dearth of technologies) influencing the growth of the battery recycling market.

- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities in the battery recycling market.

- Market Development: Comprehensive information about lucrative markets - the report analyses the battery recycling market across varied regions.

- Market Diversification: Exhaustive information about new services, various recycling processes, untapped geographies, recent developments, and investments in the battery recycling market.

- Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players such

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

as Call2Recycle, Inc. (US), Cirba Solutions (US), Element Resources (US), Umicore (Belgium), Contemporary Amperex Technology Co., Limited (China), and Exide Industries Ltd. (India) among others in the battery recycling market.

**Table of Contents:**

1 INTRODUCTION 33

1.1 STUDY OBJECTIVES 33

1.2 MARKET DEFINITION 33

1.2.1 INCLUSIONS AND EXCLUSIONS 34

TABLE 1 BATTERY RECYCLING MARKET: INCLUSIONS AND EXCLUSIONS 34

1.3 MARKET SCOPE 34

FIGURE 1 BATTERY RECYCLING MARKET SEGMENTATION 34

1.3.1 REGIONAL SCOPE 35

1.3.2 YEARS CONSIDERED 35

1.4 CURRENCY CONSIDERED 36

1.5 UNITS CONSIDERED 36

1.6 LIMITATIONS 36

1.7 STAKEHOLDERS 36

1.8 SUMMARY OF CHANGES 36

2 RESEARCH METHODOLOGY 38

2.1 RESEARCH DATA 38

FIGURE 2 BATTERY RECYCLING MARKET: RESEARCH DESIGN 38

2.1.1 SECONDARY DATA 39

2.1.1.1 Key data from secondary sources 39

2.1.2 PRIMARY DATA 39

2.1.2.1 Key data from primary sources 39

2.1.2.2 Participating companies for primary research 40

2.1.2.3 Breakdown of primary interviews 40

2.1.2.4 Key industry insights 40

2.2 MATRIX CONSIDERED FOR ASSESSING DEMAND 41

FIGURE 3 MAIN MATRIX CONSIDERED FOR ASSESSING DEMAND FOR BATTERY RECYCLING 41

2.3 MARKET SIZE ESTIMATION 41

2.3.1 BOTTOM-UP APPROACH 42

FIGURE 4 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH 42

2.3.2 TOP-DOWN APPROACH 42

FIGURE 5 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH 42

2.4 METHODOLOGY FOR SUPPLY-SIDE SIZING OF BATTERY RECYCLING MARKET (1/2) 43

2.5 METHODOLOGY FOR SUPPLY-SIDE SIZING OF BATTERY RECYCLING MARKET (2/2) 44

2.5.1 CALCULATIONS BASED ON SUPPLY-SIDE ANALYSIS 44

2.5.2 GROWTH RATE ASSUMPTIONS/GROWTH FORECAST 45

2.6 MARKET BREAKDOWN AND DATA TRIANGULATION 46

FIGURE 6 BATTERY RECYCLING MARKET: DATA TRIANGULATION 46

2.7 IMPACT OF RECESSION 47

2.8 RESEARCH ASSUMPTIONS 47

2.9 RESEARCH LIMITATIONS 47

2.10 RISK ANALYSIS 48

3 EXECUTIVE SUMMARY 49

TABLE 2 BATTERY RECYCLING MARKET SNAPSHOT: 2023 VS. 2030 50

FIGURE 7	AUTOMOTIVE BATTERIES SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD	50
FIGURE 8	EUROPE TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD	51
4	PREMIUM INSIGHTS	52
4.1	ATTRACTIVE OPPORTUNITIES IN BATTERY RECYCLING MARKET	52
FIGURE 9	HIGH OUTPUT OF SPENT BATTERIES FROM ELECTRIC VEHICLES TO DRIVE BATTERY RECYCLING MARKET	52
4.2	BATTERY RECYCLING MARKET, BY REGION	52
FIGURE 10	ASIA PACIFIC SEGMENT TO ACCOUNT FOR LARGEST SHARE DURING FORECAST PERIOD	52
4.3	BATTERY RECYCLING MARKET, BY SOURCE	53
FIGURE 11	AUTOMOTIVE BATTERIES TO REGISTER HIGHEST CAGR FROM 2023 TO 2030	53
4.4	BATTERY RECYCLING MARKET, BY CHEMISTRY	53
FIGURE 12	LITHIUM-BASED SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD	53
5	MARKET OVERVIEW	54
5.1	MARKET DYNAMICS	54
FIGURE 13	DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN BATTERY RECYCLING MARKET	54
5.1.1	DRIVERS	55
5.1.1.1	Increasing demand for electric vehicles	55
5.1.1.2	Stringent government regulations and EPA guidelines	55
5.1.1.3	Rising demand for recycled products and materials	56
5.1.1.4	Increasing awareness of resource conservation	56
5.1.2	RESTRAINTS	56
5.1.2.1	Safety issues related to storage and transportation of spent batteries	56
5.1.3	OPPORTUNITIES	57
5.1.3.1	Growing demand for renewable energy storage	57
5.1.3.2	Increasing adoption of lithium-ion batteries due to decline in price	57
5.1.4	CHALLENGES	57
5.1.4.1	High cost of recycling and dearth of technologies	57
5.2	VALUE CHAIN ANALYSIS	58
FIGURE 14	VALUE CHAIN ANALYSIS OF BATTERY RECYCLING MARKET	58
?		
5.3	ECOSYSTEM MAP	59
FIGURE 15	ECOSYSTEM MAP OF BATTERY RECYCLING MARKET	59
TABLE 3	ECOSYSTEM OF BATTERY RECYCLING MARKET	60
5.4	PORTER'S FIVE FORCES MODEL	61
5.4.1	PORTER'S FIVE FORCES ANALYSIS FOR LEAD ACID BATTERY RECYCLING	61
FIGURE 16	LEAD ACID BATTERY RECYCLING MARKET: PORTER'S FIVE FORCES ANALYSIS	61
TABLE 4	LEAD ACID BATTERY RECYCLING MARKET: PORTER'S FIVE FORCES ANALYSIS	62
5.4.1.1	Bargaining power of suppliers	62
5.4.1.2	Threat of new entrants	62
5.4.1.3	Threat of substitutes	62
5.4.1.4	Bargaining power of buyers	63
5.4.1.5	Intensity of competitive rivalry	63
5.4.2	PORTER'S FIVE FORCES ANALYSIS FOR LITHIUM-ION BATTERY RECYCLING	64
FIGURE 17	LITHIUM-ION BATTERY RECYCLING MARKET: PORTER'S FIVE FORCES ANALYSIS	64
TABLE 5	LITHIUM-ION BATTERY RECYCLING MARKET: PORTER'S FIVE FORCES ANALYSIS	65
5.4.2.1	Bargaining power of suppliers	65
5.4.2.2	Threat of new entrants	65
5.4.2.3	Threat of substitutes	65

5.4.2.4	Bargaining power of buyers	66
5.4.2.5	Intensity of competitive rivalry	66
5.5	TECHNOLOGY ANALYSIS	66
5.5.1	INTRODUCTION	66
5.5.2	TECHNOLOGY	66
5.5.2.1	Hydrometallurgy	66
5.5.3	PYROMETALLURGY	67
5.5.4	PYROLYSIS	67
5.5.5	MECHANICAL THERMODYNAMIC RECYCLING	68
5.5.6	COMPARATIVE ANALYSIS	68
5.6	TARIFF AND REGULATORY LANDSCAPE	68
TABLE 6	REGULATIONS AND STANDARDS FOR BATTERIES	68
5.6.1	NORTH AMERICA BATTERY RECYCLING REGULATIONS	70
5.6.2	EUROPE BATTERY RECYCLING REGULATIONS	71
5.6.3	ASIA PACIFIC BATTERY RECYCLING REGULATIONS	73
5.7	PATENT ANALYSIS	73
5.7.1	METHODOLOGY	73
5.7.2	DOCUMENT TYPE	73
FIGURE 18	NUMBER OF GRANTED PATENTS, PATENT APPLICATIONS, AND LIMITED PATENTS	73
FIGURE 19	PUBLICATION TRENDS - LAST 10 YEARS	74
?		
5.7.3	INSIGHTS	74
FIGURE 20	LEGAL STATUS OF PATENTS	74
5.7.4	JURISDICTION ANALYSIS	75
FIGURE 21	TOP JURISDICTION, BY DOCUMENT	75
5.7.5	TOP COMPANIES/APPLICANTS	76
FIGURE 22	TOP 10 PATENT APPLICANTS	76
TABLE 7	RECENT PATENTS BY GUANGDONG BRUNP RECYCLING TECHNOLOGY CO., LTD.	76
TABLE 8	RECENT PATENTS BY UNIV CENTRAL SOUTH	77
TABLE 9	RECENT PATENTS BY AQUA METALS, INC.	77
TABLE 10	TOP 10 PATENT OWNERS IN LAST 10 YEARS	78
5.8	CASE STUDY: ATTERO RECYCLING	78
5.8.1	KEY HIGHLIGHTS	79
5.9	KEY CONFERENCES AND EVENTS (2023-2024)	79
TABLE 11	BATTERY RECYCLING MARKET: KEY CONFERENCES AND EVENTS (2023-2024)	79
5.10	KEY STAKEHOLDERS AND BUYING CRITERIA	81
5.10.1	KEY STAKEHOLDERS IN BUYING PROCESS	81
FIGURE 23	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USE INDUSTRIES	81
TABLE 12	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USE INDUSTRIES (%)	81
5.10.2	BUYING CRITERIA	82
FIGURE 24	KEY BUYING CRITERIA FOR TOP THREE END-USE INDUSTRIES	82
TABLE 13	KEY BUYING CRITERIA FOR TOP THREE END-USE INDUSTRIES	82
5.11	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	83
FIGURE 25	TRENDS/DISRUPTIONS IMPACTING LITHIUM-ION BATTERY ECOSYSTEM	83

5.12	PRICING ANALYSIS OF RAW MATERIALS	83
5.12.1	LITHIUM	83
FIGURE 26	PRICE OF LITHIUM CARBONATE, JANUARY 2019 TO APRIL 2023	84
5.12.2	LEAD	84
FIGURE 27	PRICE OF LEAD, JANUARY 2019 TO APRIL 2023	84
5.12.3	NICKEL	84
FIGURE 28	PRICE OF NICKEL, JANUARY 2019 TO APRIL 2023	85
5.12.4	COBALT	85
FIGURE 29	PRICE OF COBALT, JANUARY 2019 TO APRIL 2023	85
5.13	TRADE DATA	86
TABLE 14	IMPORT DATA OF BATTERIES, 2021	86
TABLE 15	EXPORT DATA OF BATTERIES, 2021	86
?		
6	BATTERY RECYCLING MARKET, BY PROCESSING STATE	87
6.1	EXTRACTION OF MATERIAL	87
6.2	REUSE, REPACKAGING, AND SECOND LIFE	88
6.3	DISPOSAL	88
7	BATTERY RECYCLING MARKET, BY RECYCLING PROCESS	89
7.1	INTRODUCTION	89
7.2	HYDROMETALLURGY	89
7.3	PYROMETALLURGY	90
TABLE 16	COMPARISON OF GENERIC RECYCLING METHODS USED TO RECOVER BATTERY COMPONENTS	90
TABLE 17	BATTERY RECYCLING PROCESSES USED BY DIFFERENT COMPANIES	91
7.4	LEAD ACID BATTERY RECYCLING PROCESS	91
7.5	LITHIUM-ION BATTERY RECYCLING PROCESS	92
7.5.1	GROWTH OPPORTUNITIES FOR LITHIUM-ION BATTERY RECYCLING MARKET	92
TABLE 18	OVERALL BATTERY RECYCLING CAPACITIES OF VARIOUS COUNTRIES	93
8	BATTERY RECYCLING MARKET, BY MATERIAL	94
8.1	INTRODUCTION	94
8.2	METALS	94
TABLE 19	METALS BY WEIGHT PERCENTAGE IN MOST COMMON BATTERY CHEMISTRIES	94
TABLE 20	MAJOR RECOVERABLE METALS FROM VARIOUS BATTERY CHEMISTRIES AFTER RECYCLING	94
8.3	ELECTROLYTES	95
8.4	PLASTICS	95
8.5	OTHER COMPONENTS	95
9	BATTERY RECYCLING MARKET, BY CHEMISTRY	96
9.1	INTRODUCTION	97
FIGURE 30	LITHIUM-BASED SEGMENT TO LEAD BATTERY RECYCLING MARKET DURING FORECAST PERIOD	97
TABLE 21	BATTERY RECYCLING MARKET, BY CHEMISTRY, 2018-2020 (USD MILLION)	97
TABLE 22	BATTERY RECYCLING MARKET, BY CHEMISTRY, 2021-2030 (USD MILLION)	98
9.2	LEAD ACID	98
9.2.1	LOW RECYCLING COSTS AND HIGH RECOVERY RATE TO DRIVE MARKET	98
TABLE 23	LEAD ACID BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2018-2020 (USD MILLION)	99
TABLE 24	LEAD ACID BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2021-2030 (USD MILLION)	99
9.3	NICKEL-BASED	99

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

### 9.3.1 HIGHER POWER DENSITY TO DRIVE SEGMENT GROWTH 99

TABLE 25 NICKEL-BASED BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2018-2020 (USD MILLION) 100

TABLE 26 NICKEL-BASED BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2021-2030 (USD MILLION) 100

### 9.4 LITHIUM-BASED 101

#### 9.4.1 INCREASING GLOBAL CONSUMPTION TO DRIVE MARKET 101

TABLE 27 LITHIUM-BASED BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2018-2020 (USD MILLION) 101

TABLE 28 LITHIUM-BASED BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2021-2030 (USD MILLION) 102

TABLE 29 AUTOMOTIVE LITHIUM-BASED: BATTERY RECYCLING MARKET, BY REGION, 2018-2020 (UNITS) 102

TABLE 30 AUTOMOTIVE LITHIUM-BASED: BATTERY RECYCLING MARKET, BY REGION, 2021-2030 (UNITS) 102

### 9.5 OTHERS 103

TABLE 31 OTHERS: BATTERY RECYCLING MARKET, BY REGION, 2018-2020 (USD MILLION) 103

TABLE 32 OTHERS: BATTERY RECYCLING MARKET, BY REGION, 2021-2030 (USD MILLION) 103

10 BATTERY RECYCLING MARKET, BY SOURCE 104

### 10.1 INTRODUCTION 105

FIGURE 31 AUTOMOTIVE BATTERIES SEGMENT TO DOMINATE BATTERY RECYCLING MARKET DURING FORECAST PERIOD 105

TABLE 33 BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION) 105

TABLE 34 BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION) 106

### 10.2 AUTOMOTIVE BATTERIES 106

#### 10.2.1 HIGH DEMAND FOR ELECTRIC VEHICLES TO DRIVE MARKET GROWTH 106

TABLE 35 AUTOMOTIVE BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2018-2020 (USD MILLION) 107

TABLE 36 AUTOMOTIVE BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2021-2030 (USD MILLION) 107

### 10.3 INDUSTRIAL BATTERIES 107

#### 10.3.1 NEED FOR POWER BACKUP IN INDUSTRIAL SECTOR TO SUPPORT MARKET GROWTH 107

TABLE 37 INDUSTRIAL BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2018-2020 (USD MILLION) 108

TABLE 38 INDUSTRIAL BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2021-2030 (USD MILLION) 108

### 10.4 CONSUMER & ELECTRONIC APPLIANCE BATTERIES 108

#### 10.4.1 GROWING USE OF CONSUMER & ELECTRONIC APPLIANCES TO PROPEL MARKET DEMAND 108

TABLE 39 CONSUMER & ELECTRONIC APPLIANCE BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2018-2020 (USD MILLION) 109

TABLE 40 CONSUMER & ELECTRONIC APPLIANCE BATTERIES: BATTERY RECYCLING MARKET, BY REGION, 2021-2030 (USD MILLION) 109

?

### 11 BATTERY RECYCLING MARKET, BY REGION 110

#### 11.1 INTRODUCTION 111

FIGURE 32 BATTERY RECYCLING MARKET, BY REGION (USD MILLION) 111

TABLE 41 BATTERY RECYCLING MARKET, BY REGION, 2018-2020 (USD MILLION) 111

TABLE 42 BATTERY RECYCLING MARKET, BY REGION, 2021-2030 (USD MILLION) 112

### 11.2 ASIA PACIFIC 112

#### 11.2.1 IMPACT OF RECESSION 112

FIGURE 33 ASIA PACIFIC BATTERY RECYCLING MARKET SNAPSHOT 113

TABLE 43 ASIA PACIFIC: BATTERY RECYCLING MARKET, BY COUNTRY,

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

2018-2020 (USD MILLION)114

TABLE 44ASIA PACIFIC: BATTERY RECYCLING MARKET, BY COUNTRY,  
2021-2030 (USD MILLION)114

TABLE 45ASIA PACIFIC: BATTERY RECYCLING MARKET, BY CHEMISTRY,  
2018-2020 (USD MILLION)115

TABLE 46ASIA PACIFIC: BATTERY RECYCLING MARKET, BY CHEMISTRY,  
2021-2030 (USD MILLION)115

TABLE 47ASIA PACIFIC: BATTERY RECYCLING MARKET, BY SOURCE,  
2018-2020 (USD MILLION)115

TABLE 48ASIA PACIFIC: BATTERY RECYCLING MARKET, BY SOURCE,  
2021-2030 (USD MILLION)116

11.2.2CHINA116

11.2.2.1Growing electric vehicle market to propel battery recycling in China116

TABLE 49CHINA: BATTERY RECYCLING MARKET, BY SOURCE,  
2018-2020 (USD MILLION)116

TABLE 50CHINA: BATTERY RECYCLING MARKET, BY SOURCE,  
2021-2030 (USD MILLION)117

11.2.3INDIA117

11.2.3.1Increasing cleaner energy initiatives to drive market117

TABLE 51INDIA: BATTERY RECYCLING MARKET, BY SOURCE,  
2018-2020 (USD MILLION)117

TABLE 52INDIA: BATTERY RECYCLING MARKET, BY SOURCE,  
2021-2030 (USD MILLION)118

11.2.4JAPAN118

11.2.4.1Growth in battery manufacturing to create demand for recycling118

TABLE 53JAPAN: BATTERY RECYCLING MARKET, BY SOURCE,  
2018-2020 (USD MILLION)118

TABLE 54JAPAN: BATTERY RECYCLING MARKET, BY SOURCE,  
2021-2030 (USD MILLION)119

11.2.5SOUTH KOREA119

11.2.5.1Substantial growth in automotive sector to positively impact market119

TABLE 55SOUTH KOREA: BATTERY RECYCLING MARKET, BY SOURCE,  
2018-2020 (USD MILLION)119

TABLE 56SOUTH KOREA: BATTERY RECYCLING MARKET, BY SOURCE,  
2021-2030 (USD MILLION)120

?

11.2.6INDONESIA120

11.2.6.1Lead-acid batteries to drive growth120

TABLE 57INDONESIA: BATTERY RECYCLING MARKET, BY SOURCE,  
2018-2020 (USD MILLION)120

TABLE 58INDONESIA: BATTERY RECYCLING MARKET, BY SOURCE,  
2021-2030 (USD MILLION)120

11.2.7MALAYSIA121

11.2.7.1Requirement of energy storage to increase demand for battery recycling121

TABLE 59MALAYSIA: BATTERY RECYCLING MARKET, BY SOURCE,  
2018-2020 (USD MILLION)121

TABLE 60MALAYSIA: BATTERY RECYCLING MARKET, BY SOURCE,

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



2021-2030 (USD MILLION)121

11.2.81AUSTRALIA122

11.2.8.11Supportive government policies to aid market growth122

TABLE 611AUSTRALIA: BATTERY RECYCLING MARKET, BY SOURCE,  
2018-2020 (USD MILLION)122

TABLE 621AUSTRALIA: BATTERY RECYCLING MARKET, BY SOURCE,  
2021-2030 (USD MILLION)122

11.2.91TAIWAN122

11.2.9.11Increasing number of vehicles to support market growth122

TABLE 631TAIWAN: BATTERY RECYCLING MARKET, BY SOURCE,  
2018-2020 (USD MILLION)123

TABLE 641TAIWAN: BATTERY RECYCLING MARKET, BY SOURCE,  
2021-2030 (USD MILLION)123

11.2.101THAILAND123

11.2.10.11Electric mobility sector to drive market123

TABLE 651THAILAND: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)123

TABLE 661THAILAND: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)124

11.2.111REST OF ASIA PACIFIC124

TABLE 671REST OF ASIA PACIFIC: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)124

TABLE 681REST OF ASIA PACIFIC: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)124

11.31NORTH AMERICA125

11.3.11IMPACT OF RECESSION125

FIGURE 341NORTH AMERICA BATTERY RECYCLING MARKET SNAPSHOT125

TABLE 691NORTH AMERICA: BATTERY RECYCLING MARKET, BY COUNTRY, 2018-2020 (USD MILLION)126

TABLE 701NORTH AMERICA: BATTERY RECYCLING MARKET, BY COUNTRY, 2021-2030 (USD MILLION)126

TABLE 711NORTH AMERICA: BATTERY RECYCLING MARKET, BY CHEMISTRY, 2018-2020 (USD MILLION)126

TABLE 721NORTH AMERICA: BATTERY RECYCLING MARKET, BY CHEMISTRY, 2021-2030 (USD MILLION)127

TABLE 731NORTH AMERICA: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)127

TABLE 741NORTH AMERICA: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)127

11.3.21US128

11.3.2.11US to lead market in North America128

TABLE 751US: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)128

TABLE 761US: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)128

11.3.31CANADA129

11.3.3.11Battery recycling programs to support market129

TABLE 771CANADA: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)129

TABLE 781CANADA: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)129

11.3.41MEXICO129

11.3.4.11Government initiatives to fuel demand129

TABLE 791MEXICO: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)130

TABLE 801MEXICO: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)130

11.41EUROPE130

11.4.11IMPACT OF RECESSION130

FIGURE 351EUROPE BATTERY RECYCLING MARKET SNAPSHOT131

TABLE 811EUROPE: BATTERY RECYCLING MARKET, BY COUNTRY, 2018-2020 (USD MILLION)132

TABLE 821EUROPE: BATTERY RECYCLING MARKET, BY COUNTRY, 2021-2030 (USD MILLION)132

TABLE 831EUROPE: BATTERY RECYCLING MARKET, BY CHEMISTRY, 2018-2020 (USD MILLION)132

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 84	EUROPE: BATTERY RECYCLING MARKET, BY CHEMISTRY, 2021-2030 (USD MILLION)	133
TABLE 85	EUROPE: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	133
TABLE 86	EUROPE: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	133
11.4.2	GERMANY	134
11.4.2.1	Shift toward renewable energy to drive market	134
TABLE 87	GERMANY: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	134
TABLE 88	GERMANY: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	134
11.4.3	UK	134
11.4.3.1	Growth of electric vehicles to propel demand	134
TABLE 89	UK: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	135
TABLE 90	UK: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	135
?		
11.4.4	FRANCE	135
11.4.4.1	Development in battery recycling technologies to fuel market growth	135
TABLE 91	FRANCE: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	136
TABLE 92	FRANCE: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	136
11.4.5	ITALY	136
11.4.5.1	Increasing capacity to recycle batteries and electric vehicles sales to drive market	136
TABLE 93	ITALY: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	136
TABLE 94	ITALY: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	137
11.4.6	SPAIN	137
11.4.6.1	Growing investments to promote electric vehicle sales to propel market	137
TABLE 95	SPAIN: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	137
TABLE 96	SPAIN: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	137
11.4.7	NETHERLANDS	138
11.4.7.1	Growing consumer electronics industry to support market growth	138
TABLE 97	NETHERLANDS: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	138
TABLE 98	NETHERLANDS: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	138
11.4.8	REST OF EUROPE	138
TABLE 99	REST OF EUROPE: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	139
TABLE 100	REST OF EUROPE: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	139
11.5	SOUTH AMERICA	139
11.5.1	IMPACT OF RECESSION	139
TABLE 101	SOUTH AMERICA: BATTERY RECYCLING MARKET, BY COUNTRY, 2018-2020 (USD MILLION)	140
TABLE 102	SOUTH AMERICA: BATTERY RECYCLING MARKET, BY COUNTRY, 2021-2030 (USD MILLION)	140
TABLE 103	SOUTH AMERICA: BATTERY RECYCLING MARKET, BY CHEMISTRY, 2018-2020 (USD MILLION)	140
TABLE 104	SOUTH AMERICA BATTERY RECYCLING MARKET, BY CHEMISTRY, 2021-2030 (USD MILLION)	141
TABLE 105	SOUTH AMERICA BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	141
TABLE 106	SOUTH AMERICA BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	141
?		
11.5.2	BRAZIL	142
11.5.2.1	Brazil to lead market in South America during forecast period	142
TABLE 107	BRAZIL: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	142
TABLE 108	BRAZIL: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	142
11.5.3	ARGENTINA	143
11.5.3.1	Development of battery recycling facilities to drive market	143
TABLE 109	ARGENTINA: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	143

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 110	ARGENTINA: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	143
11.5.4	CHILE	143
11.5.4.1	Battery recycling market to register second-highest CAGR in South America	143
TABLE 111	CHILE: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	144
TABLE 112	CHILE: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	144
11.5.5	REST OF SOUTH AMERICA	144
TABLE 113	REST OF SOUTH AMERICA: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	144
TABLE 114	REST OF SOUTH AMERICA: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	145
11.6	MIDDLE EAST & AFRICA	145
11.6.1	IMPACT OF RECESSION	145
TABLE 115	MIDDLE EAST & AFRICA: BATTERY RECYCLING MARKET, BY COUNTRY, 2018-2020 (USD MILLION)	145
TABLE 116	MIDDLE EAST & AFRICA: BATTERY RECYCLING MARKET, BY COUNTRY, 2021-2030 (USD MILLION)	146
TABLE 117	MIDDLE EAST & AFRICA: BATTERY RECYCLING MARKET, BY CHEMISTRY, 2018-2020 (USD MILLION)	146
TABLE 118	MIDDLE EAST & AFRICA: BATTERY RECYCLING MARKET, BY CHEMISTRY, 2021-2030 (USD MILLION)	146
TABLE 119	MIDDLE EAST & AFRICA: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	147
TABLE 120	MIDDLE EAST & AFRICA: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	147
11.6.2	SAUDI ARABIA	147
11.6.2.1	Government initiatives toward renewable energy sector to drive demand for battery recycling	147
TABLE 121	SAUDI ARABIA: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	147
TABLE 122	SAUDI ARABIA: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	148
?		
11.6.3	UAE	148
11.6.3.1	Government support to enhance electric vehicles to drive market	148
TABLE 123	UAE: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	148
TABLE 124	UAE: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	148
11.6.4	SOUTH AFRICA	149
11.6.4.1	Automotive batteries segment to lead market	149
TABLE 125	SOUTH AFRICA: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	149
TABLE 126	SOUTH AFRICA: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	149
11.6.5	EGYPT	149
11.6.5.1	Focus on electronic waste management to enhance market growth	149
TABLE 127	EGYPT: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	150
TABLE 128	EGYPT: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	150
11.6.6	REST OF MIDDLE EAST & AFRICA	150
TABLE 129	REST OF MIDDLE EAST & AFRICA: BATTERY RECYCLING MARKET, BY SOURCE, 2018-2020 (USD MILLION)	150
TABLE 130	REST OF MIDDLE EAST & AFRICA: BATTERY RECYCLING MARKET, BY SOURCE, 2021-2030 (USD MILLION)	151
12	COMPETITIVE LANDSCAPE	152
12.1	INTRODUCTION	152
12.2	STRATEGIES ADOPTED BY KEY PLAYERS	152
TABLE 131	OVERVIEW OF STRATEGIES ADOPTED BY KEY MANUFACTURERS	152
12.3	MARKET SHARE ANALYSIS	154
12.3.1	RANKING OF KEY MARKET PLAYERS, 2022	154
FIGURE 36	RANKING OF TOP SIX PLAYERS IN BATTERY RECYCLING MARKET, 2022	154
12.3.2	MARKET SHARE OF KEY PLAYERS	154
FIGURE 37	BATTERY RECYCLING MARKET SHARE ANALYSIS	155
TABLE 132	BATTERY RECYCLING MARKET: DEGREE OF COMPETITION	155
12.3.2.1	Call2Recycle, Inc.	155

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

12.3.2.2	Cirba Solutions	156
12.3.2.3	Element Resources	156
12.3.2.4	Umicore	156
12.3.2.5	Contemporary Amperex Technology Co., Limited	156
12.3.2.6	Exide Industries Ltd.	156
12.3.3	REVENUE ANALYSIS OF TOP 6 PLAYERS	157
FIGURE 38	REVENUE ANALYSIS OF KEY COMPANIES (2018-2022)	157
12.4	COMPANY PRODUCT FOOTPRINT ANALYSIS	158
FIGURE 39	BATTERY RECYCLING MARKET: COMPANY FOOTPRINT	158
TABLE 133	BATTERY RECYCLING MARKET: CHEMISTRY FOOTPRINT	159
?		
TABLE 134	BATTERY RECYCLING MARKET: RECYCLING PROCESS FOOTPRINT	160
TABLE 135	BATTERY RECYCLING MARKET: COMPANY REGION FOOTPRINT	161
12.5	COMPANY EVALUATION MATRIX (TIER 1)	162
12.5.1	STARS	162
12.5.2	EMERGING LEADERS	162
12.5.3	PERVASIVE PLAYERS	162
12.5.4	PARTICIPANTS	162
FIGURE 40	COMPANY EVALUATION QUADRANT: BATTERY RECYCLING MARKET (TIER 1 COMPANIES)	163
12.6	COMPETITIVE BENCHMARKING	164
TABLE 136	BATTERY RECYCLING MARKET: DETAILED LIST OF KEY STARTUPS/SMES	164
TABLE 137	BATTERY RECYCLING MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES	165
12.7	STARTUP/SME EVALUATION QUADRANT	166
12.7.1	PROGRESSIVE COMPANIES	166
12.7.2	RESPONSIVE COMPANIES	166
12.7.3	DYNAMIC COMPANIES	166
12.7.4	STARTING BLOCKS	166
FIGURE 41	STARTUP/SM EVALUATION QUADRANT: BATTERY RECYCLING MARKET	167
12.8	RECENT DEVELOPMENTS	168
12.8.1	PRODUCT LAUNCHES	168
TABLE 138	BATTERY RECYCLING MARKET: PRODUCT LAUNCHES (2019-APRIL 2023)	168
12.8.2	DEALS	168
TABLE 139	BATTERY RECYCLING MARKET: DEALS (2019-APRIL 2023)	168
12.8.3	OTHER DEVELOPMENTS	182
TABLE 140	BATTERY RECYCLING MARKET: EXPANSIONS, INVESTMENTS, AND INNOVATIONS (2019-APRIL 2023)	182
13	COMPANY PROFILES	188
(Business overview, Products offered, Recent Developments, MNM view)*		
13.1	KEY COMPANIES	188
13.1.1	CALL2RECYCLE, INC.	188
TABLE 141	CALL2RECYCLE, INC.: COMPANY OVERVIEW	188
TABLE 142	CALL2RECYCLE, INC.: PRODUCTS OFFERED	188
TABLE 143	CALL2RECYCLE, INC.: DEALS	189
13.1.2	CIRBA SOLUTIONS	191
TABLE 144	CIRBA SOLUTIONS: COMPANY OVERVIEW	191
TABLE 145	CIRBA SOLUTIONS: PRODUCTS OFFERED	191
TABLE 146	CIRBA SOLUTIONS: DEALS	192
TABLE 147	CIRBA SOLUTIONS: OTHERS	193

### 13.1.3 ELEMENT RESOURCES 194

?

TABLE 148 ELEMENT RESOURCES: COMPANY OVERVIEW 194

TABLE 149 ELEMENT RESOURCES: PRODUCTS OFFERED 194

### 13.1.4 UMICORE 196

TABLE 150 UMICORE: COMPANY OVERVIEW 196

FIGURE 42 UMICORE: COMPANY SNAPSHOT 197

TABLE 151 UMICORE: PRODUCTS OFFERED 197

TABLE 152 UMICORE: DEALS 198

### 13.1.5 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED 201

TABLE 153 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED: COMPANY OVERVIEW 201

TABLE 154 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED: PRODUCTS OFFERED 201

TABLE 155 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED: DEALS 202

TABLE 156 CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED: OTHERS 203

### 13.1.6 EXIDE INDUSTRIES LTD. 204

TABLE 157 EXIDE INDUSTRIES LTD.: COMPANY OVERVIEW 204

FIGURE 43 EXIDE INDUSTRIES LTD.: COMPANY SNAPSHOT 204

TABLE 158 EXIDE INDUSTRIES LTD.: PRODUCTS OFFERED 205

TABLE 159 EXIDE INDUSTRIES LTD.: OTHERS 205

### 13.1.7 ACCUREC RECYCLING GMBH 206

TABLE 160 ACCUREC RECYCLING GMBH: COMPANY OVERVIEW 206

TABLE 161 ACCUREC RECYCLING GMBH: PRODUCTS OFFERED 206

TABLE 162 ACCUREC RECYCLING GMBH: OTHERS 207

### 13.1.8 AMERICAN BATTERY TECHNOLOGY COMPANY 208

TABLE 163 AMERICAN BATTERY TECHNOLOGY COMPANY: COMPANY OVERVIEW 208

TABLE 164 AMERICAN BATTERY TECHNOLOGY COMPANY: PRODUCTS OFFERED 208

TABLE 165 AMERICAN BATTERY TECHNOLOGY COMPANY: DEALS 208

TABLE 166 AMERICAN BATTERY TECHNOLOGY COMPANY: OTHERS 209

### 13.1.9 AQUA METALS, INC. 210

TABLE 167 AQUA METALS, INC.: COMPANY OVERVIEW 210

FIGURE 44 AQUA METALS, INC.: COMPANY SNAPSHOT 211

TABLE 168 AQUA METALS, INC.: PRODUCTS OFFERED 211

TABLE 169 AQUA METALS, INC.: DEALS 211

TABLE 170 AQUA METALS, INC.: OTHERS 212

### 13.1.10 EAST PENN MANUFACTURING COMPANY 213

TABLE 171 EAST PENN MANUFACTURING COMPANY: COMPANY OVERVIEW 213

TABLE 172 EAST PENN MANUFACTURING COMPANY: PRODUCTS OFFERED 213

### 13.1.11 ECOBAT 214

TABLE 173 ECOBAT: COMPANY OVERVIEW 214

TABLE 174 ECOBAT: PRODUCTS OFFERED 214

TABLE 175 ECOBAT: DEALS 215

TABLE 176 ECOBAT: OTHERS 215

?

### 13.1.12 ENERSYS 216

TABLE 177 ENERSYS: COMPANY OVERVIEW 216

FIGURE 45 ENERSYS: COMPANY SNAPSHOT 216

TABLE 178 ENERSYS: PRODUCTS OFFERED 217

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

13.1.13	FORTUM	218
TABLE 179	FORTUM: COMPANY OVERVIEW	218
FIGURE 46	FORTUM: COMPANY SNAPSHOT	219
TABLE 180	FORTUM: PRODUCTS OFFERED	219
TABLE 181	FORTUM: DEALS	220
TABLE 182	FORTUM: OTHERS	220
13.1.14	GEM CO., LTD.	222
TABLE 183	GEM CO., LTD.: COMPANY OVERVIEW	222
TABLE 184	GEM CO., LTD.: PRODUCTS OFFERED	222
TABLE 185	GEM CO., LTD.: DEALS	223
13.1.15	GLENCORE	224
TABLE 186	GLENCORE: COMPANY OVERVIEW	224
FIGURE 47	GLENCORE: COMPANY SNAPSHOT	225
TABLE 187	GLENCORE: PRODUCTS OFFERED	225
TABLE 188	GLENCORE: DEALS	226
13.1.16	GOPHER RESOURCE	227
TABLE 189	GOPHER RESOURCE: COMPANY OVERVIEW	227
TABLE 190	GOPHER RESOURCE: PRODUCTS OFFERED	227
TABLE 191	GOPHER RESOURCE: DEALS	228
13.1.17	GRAVITA INDIA LTD.	229
TABLE 192	GRAVITA INDIA LTD.: COMPANY OVERVIEW	229
FIGURE 48	GRAVITA INDIA LTD.: COMPANY SNAPSHOT	230
TABLE 193	GRAVITA INDIA LTD.: PRODUCTS OFFERED	230
TABLE 194	GRAVITA INDIA LTD.: OTHERS	231
13.1.18	LI-CYCLE CORP.	232
TABLE 195	LI-CYCLE CORP.: COMPANY OVERVIEW	232
FIGURE 49	LI-CYCLE CORP.: COMPANY SNAPSHOT	232
TABLE 196	LI-CYCLE CORP.: PRODUCTS OFFERED	233
TABLE 197	LI-CYCLE CORP.: DEALS	233
TABLE 198	LI-CYCLE CORP.: OTHERS	235
13.1.19	NEOMETALS LTD.	236
TABLE 199	NEOMETALS LTD.: COMPANY OVERVIEW	236
TABLE 200	NEOMETALS LTD.: PRODUCTS OFFERED	236
TABLE 201	NEOMETALS LTD.: PRODUCT LAUNCHES	237
TABLE 202	NEOMETALS LTD.: DEALS	237
TABLE 203	NEOMETALS LTD.: OTHERS	237
?		
13.1.20	RAW MATERIALS COMPANY	239
TABLE 204	RAW MATERIALS COMPANY: COMPANY OVERVIEW	239
TABLE 205	RAW MATERIALS COMPANY: PRODUCTS OFFERED	239
13.1.21	RECYCLICO BATTERY MATERIALS INC.	240
TABLE 206	RECYCLICO BATTERY MATERIALS INC.: COMPANY OVERVIEW	240
TABLE 207	RECYCLICO BATTERY MATERIALS INC.: PRODUCTS OFFERED	240
TABLE 208	RECYCLICO BATTERY MATERIALS INC.: PRODUCT LAUNCHES	240
TABLE 209	RECYCLICO BATTERY MATERIALS INC.: DEALS	241
13.1.22	REDWOOD MATERIALS INC.	243
TABLE 210	REDWOOD MATERIALS INC.: COMPANY OVERVIEW	243

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

TABLE 211 REDWOOD MATERIALS INC.: PRODUCTS OFFERED 243

TABLE 212 REDWOOD MATERIALS INC.: DEALS 244

TABLE 213 REDWOOD MATERIALS INC.: OTHERS 245

13.1.23 SHENZHEN HIGHPOWER TECHNOLOGY CO., LTD. 246

TABLE 214 SHENZHEN HIGHPOWER TECHNOLOGY CO., LTD.: COMPANY OVERVIEW 246

TABLE 215 SHENZHEN HIGHPOWER TECHNOLOGY CO., LTD.: PRODUCTS OFFERED 246

13.1.24 STENA RECYCLING 247

TABLE 216 STENA RECYCLING: COMPANY OVERVIEW 247

TABLE 217 STENA RECYCLING: PRODUCTS OFFERED 247

TABLE 218 STENA RECYCLING: DEALS 248

TABLE 219 STENA RECYCLING: OTHERS 248

13.1.25 TERRAPURE 249

TABLE 220 TERRAPURE: COMPANY OVERVIEW 249

TABLE 221 TERRAPURE: PRODUCTS OFFERED 249

13.1.26 TES 250

TABLE 222 TES: COMPANY OVERVIEW 250

TABLE 223 TES: PRODUCTS OFFERED 250

TABLE 224 TES: DEALS 250

TABLE 225 TES: OTHERS 252

13.1.27 THE DOE RUN COMPANY 253

TABLE 226 THE DOE RUN COMPANY: COMPANY OVERVIEW 253

TABLE 227 THE DOE RUN COMPANY: PRODUCTS OFFERED 253

13.1.28 THE INTERNATIONAL METALS RECLAMATION COMPANY 254

TABLE 228 THE INTERNATIONAL METALS RECLAMATION COMPANY: COMPANY OVERVIEW 254

TABLE 229 THE INTERNATIONAL METALS RECLAMATION COMPANY: PRODUCTS OFFERED 254

\*Details on Business overview, Products offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

13.2 OTHER COMPANIES 255

13.2.1 BATREC INDUSTRIE 255

TABLE 230 BATREC INDUSTRIE: COMPANY OVERVIEW 255

?

13.2.2 BATTERY RECYCLING MADE EASY (BRME) 256

TABLE 231 BATTERY RECYCLING MADE EASY (BRME): COMPANY OVERVIEW 256

13.2.3 DUESENFELD GMBH 257

TABLE 232 DUESENFELD GMBH: COMPANY OVERVIEW 257

13.2.4 ENVIROSTREAM AUSTRALIA PTY LTD. 258

TABLE 233 ENVIROSTREAM AUSTRALIA PTY LTD.: COMPANY OVERVIEW 258

13.2.4.1 Recent developments 258

TABLE 234 ENVIROSTREAM AUSTRALIA PTY LTD.: OTHERS 258

13.2.5 EURO DIEUZE INDUSTRIE (E.D.I.) 259

TABLE 235 EURO DIEUZE INDUSTRIE (E.D.I.): COMPANY OVERVIEW 259

13.2.6 LITHION RECYCLING 260

TABLE 236 LITHION RECYCLING: COMPANY OVERVIEW 260

13.2.7 METALEX PRODUCTS LTD. 260

TABLE 237 METALEX PRODUCTS LTD.: COMPANY OVERVIEW 260

13.2.8 ONTO TECHNOLOGY 261

TABLE 238 ONTO TECHNOLOGY: COMPANY OVERVIEW 261

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

13.2.9	SITRASA	261
TABLE 239	SITRASA: COMPANY OVERVIEW	261
13.2.10	SMC RECYCLING	262
TABLE 240	SMC RECYCLING: COMPANY OVERVIEW	262
13.2.11	TATA CHEMICALS LIMITED	262
TABLE 241	TATA CHEMICALS LIMITED: COMPANY OVERVIEW	262
14	ADJACENT AND RELATED MARKETS	263
14.1	INTRODUCTION	263
14.2	LIMITATIONS	263
14.3	LITHIUM-ION BATTERY RECYCLING MARKET	263
14.3.1	MARKET DEFINITION	263
14.3.2	MARKET OVERVIEW	263
14.3.3	LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE	264
TABLE 242	AUTOMOTIVE: LITHIUM-ION BATTERY RECYCLING MARKET, BY REGION, 2017-2020 (USD MILLION)	264
TABLE 243	AUTOMOTIVE: LITHIUM-ION BATTERY RECYCLING MARKET, BY REGION, 2021-2031 (USD MILLION)	264
TABLE 244	AUTOMOTIVE: LITHIUM-ION BATTERY RECYCLING MARKET, BY REGION, 2017-2020 (UNITS)	264
TABLE 245	AUTOMOTIVE: LITHIUM-ION BATTERY RECYCLING MARKET, BY REGION, 2021-2031 (UNITS)	265
TABLE 246	NON-AUTOMOTIVE: LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2017-2020 (USD MILLION)	265
TABLE 247	NON-AUTOMOTIVE: LITHIUM-ION BATTERY RECYCLING MARKET, BY SOURCE, 2021-2031 (USD MILLION)	266
15	APPENDIX	267
15.1	DISCUSSION GUIDE	267
15.2	KNOWLEDGESTORE: MARKETSANDMARKETS? SUBSCRIPTION PORTAL	269
15.3	CUSTOMIZATION OPTIONS	271
15.4	RELATED REPORTS	271
15.5	AUTHOR DETAILS	272



**Battery Recycling Market by Source (Automotive Batteries, Industrial Batteries, Consumer & Electronic Appliance Batteries), Chemistry (Lead Acid, Lithium-based, Nickel-based), Material (Metals, Electrolyte, Plastics) and Region - Global Forecast to 2030**

Market Report | 2023-06-13 | 264 pages | MarketsandMarkets

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

Select license	License	Price
	Single User	\$4950.00
	Multi User	\$6650.00
	Corporate License	\$8150.00
	Enterprise Site License	\$10000.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Zip Code\*

Country\*

Date

Signature