

**Cell to Pack Battery Market by Form (Prismatic, Pouch, Cylindrical), Battery Type (LFP, NMC), Propulsion (BEV, PHEV), Technology (Blade, LiSER), Vehicle Type (Passenger Cars, Commercial Vehicles) and Region - Global Forecast to 2030**

Market Report | 2023-02-10 | 252 pages | MarketsandMarkets

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**Report description:**

The cell to pack battery market is projected to grow from USD 5.5 billion in 2023 to USD 29.3 billion by 2030 at a CAGR of 26.9%. The growth of this market is mainly driven by the increasing demand for high-voltage batteries to achieve a longer drive range. CTP battery is one of the results of such advancement, which eliminates the usage of modules and directly integrates cells into battery packs. This allows the use of larger and more cells within battery packs with reduced interconnections and a simplified assembly process resulting in an increased volumetric density of batteries and reduced cost. CTP technology is yet to be commercially launched in most EV-dominating countries. It is expected to gain traction by 2024?2025 in the US, South Korea, Japan, and European countries.

"Passenger electric vehicles is the largest market for cell to pack battery."

The demand for electric passenger cars has increased in the past few years owing to the rising demand for safer personal commutes in inter-city and cross-country travel. Asia Pacific is predicted to be the largest market for the sale of passenger electric cars, with China being the major contributor in the region. Demand for electric passenger cars in Europe and North America has also grown due to rising fuel prices and increasing awareness for decarbonized vehicles. Some electric passenger car models offer an average driving range of 500-600 km, but these are higher-ranged electric passenger cars. Cell to pack batteries would help to equip economical electric passenger cars with high energy density at lower cost and reduced weight.

Further, cell to pack battery technology will support the noteworthy developments undertaken by electric vehicle manufacturers in high-voltage battery areas for the passenger cars segment to improve vehicle range and reduce charging time. For instance, Hyundai and Kia have introduced high-speed 800V architecture for upcoming passenger vehicles. Porsche has an EV model Taycan which supports an 800 V battery architecture. Other OEMs have also announced using cell to pack batteries in upcoming

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models. In December 2021, Toyota Motor Corporation partnered with BYD Company Ltd. to build an electric car with a blade battery. In October 2021, Hyundai MOBIS (South Korea) entered a partnership with CATL, wherein CATL would supply the cell-to-pack battery technology to Hyundai MOBIS. This will likely bring some EV models to South Korea from 2023-2024 onwards. Further, a few Chinese OEMs - BYD Company Ltd., Neta, Xpeng Inc., etc. have either expanded or planned to expand with electric passenger car models in other parts of the world. All of these factors will help to dominate the passenger vehicle segment for cell to pack battery market

"Lithium iron phosphate chemistry to hold the largest share in the cell to pack battery."

Lithium iron phosphate (LFP) battery chemistry (a form of Lithium-ion battery) is also the most preferred choice among other chemistry for cell to pack battery technology. LFP batteries offer numerous advantages such as lightweight, lower cost, enhanced discharge, charge efficiency, durability, longer life span, minimal maintenance, and optimized safety, among others. Owing to these benefits, >90% of batteries developed with the cell to pack technology use LFP chemistry across all-electric vehicles. In October 2021, Tesla declared that it would completely switch to LFP batteries in all its models owing to lower cost and easy production process rather than using NCA batteries for increasing the range of its vehicles. Currently, Tesla has adopted the use of LFP batteries in its best-selling models like Model 3 and Model Y. Apart from passenger cars, LFP has also been used in electric buses due to its lower costs and high voltage bearing feature. Thus, these factors and the need for an optimized energy density range would drive the LFP batteries' demand for CTP technology over the coming years.

Europe is speculated to be the fastest-growing market for cell to pack battery

Europe is anticipated to grow at the fastest rate for cell to pack battery market by 2030. Europe is witnessing significant expansion in the micro-cars segment owing to factors such as the stringent carbon emission mandate, incentive boost by green recovery funds, viable charging infrastructure, and intense promotion of electric and plug-in hybrid vehicles. The market demand for cell to pack batteries will be initially driven by the entry of foreign OEMs with vehicles equipped with this technology. For instance, BYD Tang, Han EV, and Atto 3 are offered in some European countries, including Norway, Germany, Sweden, and the UK. Tesla sells Model 3 and Model Y in Europe and is expected to deploy cell to pack batteries in these models in the coming years as it has started deploying these CTP batteries in China. Further, some electric commercial vehicle manufacturers (Solaris Bus & Coach sp. z o.o., VDL Bus & Coach BV) have partnered with Chinese battery supplier- CATL to receive cell to pack batteries in electric buses. However, the Russia-Ukraine crisis has disrupted the supply chain for batteries and other raw material supplies for electric vehicles and also affected EV sales to some extent. The situation is anticipated to recover in the coming years, thereby fueling the demand for cell to pack batteries in the years to come.

In-depth interviews were conducted with CEOs, marketing directors, other innovation and strategy directors, and executives from various key organizations operating in this market.

-□By Stakeholders: Demand Side - 20% and Supply Side - 80%

-□By Designation: C Level Executives -□ 10%, Directors - 30%, and Others - 60%

-□By Region: Europe - 10%, North America - 10%, and Others - 80%

Contemporary Amperex Technology Co., Limited. (China), BYD Company Ltd. (China), LG Energy Solution. (South Korea), Tesla (US), XPENG INC. (China), C4V (US), and Sunwoda Electronic Co., Ltd. (China) are the leading supplier of cell to pack battery in the global market.

Research Coverage:

The cell to pack battery market is segmented By Form (Prismatic, Pouch, Cylindrical), Battery Type [Lithium Iron Phosphate (LFP), Nickel Manganese Cobalt (NMC), Other Battery Types], Propulsion (BEV, PHEV), Technology (Blade Battery Technology, LiSER Battery Technology, Other Battery Technology), Electric Vehicle Type [Electric Passenger Cars, Electric Commercial Vehicles (Buses and Trucks)], and Region (Asia Pacific, Europe, and North America).

The study also includes an in-depth competitive analysis of the major cell to pack battery manufacturers in the market, their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

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## Key Benefits of Buying the Report:

The report will help the market leaders with information on the closest approximations of the revenue numbers for the overall cell to pack battery market and the sub-segments. This report covers technological trends like improved battery designs and battery chemistry, the development of new cell to chassis battery technology about cell to pack battery market, which would help the stakeholders to understand more about the battery technology advancements in the industry. This report would help stakeholders understand the fastest growing market that is Europe, and the largest market that is Asia Pacific, for cell to pack batteries at regional and global levels and the factors influencing the growth of these regions. This report will help stakeholders to understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

## Table of Contents:

1	INTRODUCTION	33
1.1	STUDY OBJECTIVES	33
1.2	MARKET DEFINITION	33
1.3	INCLUSIONS & EXCLUSIONS	34
1.4	STUDY SCOPE	35
FIGURE 1	MARKET SEGMENTATION: CELL TO PACK BATTERY MARKET	35
1.4.1	REGIONAL SCOPE	35
FIGURE 2	CELL TO PACK BATTERY MARKET: REGIONAL SCOPE	35
1.4.2	YEARS CONSIDERED	36
1.5	CURRENCY CONSIDERED	36
TABLE 1	CURRENCY EXCHANGE RATES	36
1.6	LIMITATIONS	37
1.7	STAKEHOLDERS	37
2	RESEARCH METHODOLOGY	38
2.1	RESEARCH DATA	38
FIGURE 3	RESEARCH DESIGN	38
FIGURE 4	RESEARCH METHODOLOGY MODEL	39
2.1.1	SECONDARY DATA	40
2.1.1.1	Key data from secondary sources	40
2.1.1.2	Key data from secondary sources	41
2.1.2	PRIMARY DATA	42
FIGURE 5	BREAKDOWN OF PRIMARY INTERVIEWS: BY STAKEHOLDER, DESIGNATION, AND REGION	42
2.1.2.1	Breakdown of primary interviews	43
2.2	MARKET ESTIMATION METHODOLOGY	43
FIGURE 6	RESEARCH METHODOLOGY: HYPOTHESIS BUILDING	44
2.2.1	RECESSION IMPACT ANALYSIS	45
2.3	MARKET SIZE ESTIMATION	45
2.3.1	BOTTOM-UP APPROACH	45
FIGURE 7	CELL TO PACK BATTERY MARKET, BY VEHICLE TYPE: BOTTOM-UP APPROACH	46
2.3.2	TOP-DOWN APPROACH	46
FIGURE 8	CELL TO PACK BATTERY MARKET, BY BATTERY TYPE: TOP-DOWN APPROACH	46
2.3.3	FACTOR ANALYSIS FOR MARKET SIZING: DEMAND AND SUPPLY SIDE	47
2.4	FACTOR ANALYSIS	47
2.5	DATA TRIANGULATION	48
FIGURE 9	DATA TRIANGULATION METHODOLOGY	48

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2.6	RESEARCH ASSUMPTIONS	49
2.7	RISK ASSESSMENT	50
2.8	RESEARCH LIMITATIONS	52
3	EXECUTIVE SUMMARY	53
3.1	INTRODUCTION	53
3.1.1	PRE VS. POST-RECESSION SCENARIO	53
FIGURE 10	PRE VS. POST-RECESSION SCENARIO: CELL TO PACK BATTERY MARKET SIZE, 2020-2030 (USD MILLION)	53
TABLE 2	PRE VS. POST-RECESSION SCENARIO: CELL TO PACK BATTERY MARKET, 2020-2030 (USD MILLION)	54
3.1.2	REPORT SUMMARY	55
FIGURE 11	CELL TO PACK BATTERY MARKET, BY REGION, 2023 VS. 2030 (USD MILLION)	55
4	PREMIUM INSIGHTS	58
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN CELL TO PACK BATTERY MARKET	58
FIGURE 12	RIISING DEMAND FOR HIGH ENERGY DENSITY BATTERIES TO DRIVE MARKET GROWTH	58
4.2	CELL TO PACK BATTERY MARKET, BY REGION	59
FIGURE 13	ASIA PACIFIC TO LEAD MARKET DURING FORECAST PERIOD	59
4.3	CELL TO PACK BATTERY MARKET, BY BATTERY FORM	59
FIGURE 14	PRISMATIC FORM SEGMENT PREDICTED TO DOMINATE MARKET DURING FORECAST PERIOD	59
4.4	CELL TO PACK BATTERY MARKET, BY BATTERY TYPE	60
FIGURE 15	LITHIUM IRON PHOSPHATE SEGMENT TO HOLD LARGEST SHARE FOR CELL TO PACK BATTERY MARKET	60
4.5	CELL TO PACK BATTERY MARKET, BY PROPULSION	60
FIGURE 16	BEVS SEGMENT PROJECTED TO SECURE LARGEST MARKET SHARE DURING FORECAST PERIOD	60
4.6	CELL TO PACK BATTERY MARKET, BY TECHNOLOGY	61
FIGURE 17	BLADE BATTERY TECHNOLOGY SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD	61
4.7	CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE	61
FIGURE 18	PASSENGER CARS SEGMENT TO SECURE LARGEST MARKET SHARE DURING FORECAST PERIOD	61
5	MARKET OVERVIEW	62
5.1	INTRODUCTION	62
5.2	MARKET DYNAMICS	63
FIGURE 19	CELL TO PACK BATTERY: MARKET DYNAMICS	63
5.2.1	DRIVERS	63
5.2.1.1	Increase in EV demand	63
FIGURE 20	EV BATTERY MARKET, BY MATERIAL TYPE, 2022 VS 2027	64
5.2.1.2	Growing technological advancements in batteries	64
5.2.2	RESTRAINTS	65
5.2.2.1	Limiting use of electric vehicles	65
5.2.3	OPPORTUNITIES	65
5.2.3.1	Electrification of commercial vehicles	65
FIGURE 21	ELECTRIC BUSES MARKET, BY REGION, 2018-2021	66
FIGURE 22	ELECTRIC TRUCKS MARKET, BY REGION, 2019-2021	66
5.2.4	CHALLENGES	67
5.2.4.1	Battery design and initial costs	67
5.2.4.2	Safety concerns due to battery thermal management	67
5.3	PORTER'S FIVE FORCES ANALYSIS	68
TABLE 3	PORTER'S FIVE FORCES ANALYSIS	68
FIGURE 23	PORTER'S FIVE FORCES ANALYSIS	68
5.3.1	THREAT OF NEW ENTRANTS	69
5.3.2	THREAT OF SUBSTITUTES	69

5.3.3	BARGAINING POWER OF SUPPLIERS	69
5.3.4	BARGAINING POWER OF BUYERS	69
5.3.5	INTENSITY OF COMPETITIVE RIVALRY	70
5.4	IMPACT OF RECESSION ON CELL TO PACK BATTERY MARKET SCENARIO ANALYSIS	70
5.4.1	INTRODUCTION	70
5.4.2	REGIONAL MACRO-ECONOMIC OVERVIEW	70
5.4.3	ANALYSIS OF KEY ECONOMIC INDICATORS	71
TABLE 4	KEY ECONOMIC INDICATORS FOR SELECT COUNTRIES, 2021-2022	71
5.4.4	ECONOMIC STAGFLATION (SLOWDOWN) VS. ECONOMIC RECESSION	72
5.4.4.1	Europe	72
TABLE 5	EUROPE: KEY ECONOMIC INDICATORS, 2021-2023	72
5.4.4.2	Asia Pacific	73
TABLE 6	ASIA PACIFIC: KEY ECONOMIC INDICATORS, 2021-2023	73
5.4.4.3	Americas	73
TABLE 7	AMERICAS: KEY ECONOMIC INDICATORS, 2021-2023	73
5.4.5	ECONOMIC OUTLOOK/PROJECTIONS	74
TABLE 8	GDP GROWTH PROJECTIONS FOR KEY COUNTRIES, 2024-2027 (% GROWTH)	74
5.5	IMPACT ON ELECTRIC VEHICLE SALES	75
5.5.1	ANALYSIS OF ELECTRIC VEHICLE SALES	75
5.5.1.1	Europe	75
FIGURE 24	EUROPE: ELECTRIC PASSENGER CARS, BEV, AND PHEV SALES, BY COUNTRY, 2021-2022	75
5.5.1.2	Asia Pacific	76
FIGURE 25	ASIA PACIFIC: PASSENGER CARS, BEV AND PHEV SALES, BY COUNTRY, 2021-2022	76
5.5.1.3	North America	77
FIGURE 26	NORTH AMERICA: PASSENGER CARS, BEVS, AND PHEVS SALES, BY COUNTRY, 2021-2022	77
5.5.2	ELECTRIC VEHICLE SALES OUTLOOK	78
FIGURE 27	PASSENGER CARS, BEVS, AND PHEVS VEHICLE SALES FORECAST, 2022 VS. 2030 (UNITS)	78
5.5.3	IMPACT OF RECESSION ON CELL TO PACK BATTERY MARKET: SCENARIO ANALYSIS	81
FIGURE 28	SCENARIO ANALYSIS: CELL TO PACK BATTERY MARKET SCENARIO, 2020-2030 (USD MILLION)	81
5.5.3.1	Most likely recession scenario	81
TABLE 9	CELL TO PACK BATTERY MARKET (MOST LIKELY RECESSION SCENARIO), BY REGION, 2020-2030 (USD MILLION)	82
5.5.3.2	High-impact recession scenario	82
TABLE 10	CELL TO PACK BATTERY MARKET (HIGH-IMPACT RECESSION SCENARIO), BY REGION, 2020-2030 (USD MILLION)	82
5.5.3.3	Low-impact recession scenario	83
TABLE 11	CELL TO PACK BATTERY MARKET (LOW-IMPACT RECESSION SCENARIO), BY REGION, 2020-2030 (USD MILLION)	83
5.6	TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	84
FIGURE 29	REVENUE SHIFT DRIVING MARKET GROWTH	84
5.7	SUPPLY CHAIN ANALYSIS	85
FIGURE 30	SUPPLY CHAIN ANALYSIS: CELL TO PACK BATTERY MARKET (1/2)	85
FIGURE 31	SUPPLY CHAIN ANALYSIS: CELL TO PACK BATTERY MARKET (2/2)	86
5.8	ECOSYSTEM	87
FIGURE 32	CELL TO PACK BATTERY MARKET: ECOSYSTEM	87
FIGURE 33	CELL TO PACK BATTERY MARKET: ECOSYSTEM ANALYSIS	88
TABLE 12	ROLE OF COMPANIES IN CELL TO PACK BATTERY MARKET ECOSYSTEM	88
5.9	TECHNOLOGY ANALYSIS	89
5.9.1	IMPROVED BATTERY DESIGN AND COMPOSITION	89
5.9.2	CELL TO CHASSIS BATTERY TECHNOLOGY	90

5.10	AVERAGE SELLING PRICE ANALYSIS	90
TABLE 13	AVERAGE SELLING PRICE, BY REGION	90
TABLE 14	AVERAGE SELLING PRICE, BY BATTERY FORM	90
5.11	CELL TO PACK BATTERY MARKET: PATENT ANALYSIS, 2019?2022	91
TABLE 15	PATENT ANALYSIS 2019?2022	91
5.12	REGULATORY LANDSCAPE	94
5.12.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	94
5.12.1.1	North America: List of regulatory bodies, government agencies, and other organizations	94
TABLE 16	NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	94
5.12.1.2	Europe: List of regulatory bodies, government agencies, and other organizations	96
TABLE 17	EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	96
5.12.1.3	Asia Pacific: List of regulatory bodies, government agencies, and other organizations	97
TABLE 18	ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	97
5.12.1.4	Rest of the World: List of regulatory bodies, government agencies, and other organizations	98
TABLE 19	REST OF WORLD: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	98
5.13	CASE STUDY ANALYSIS	98
5.13.1	USE CASE 1: DEVELOPMENT OF BLADE BATTERY BY BYD COMPANY LTD.	98
6	CELL TO PACK BATTERY MARKET, BY BATTERY FORM	99
Note: The chapter is provided on regional level - Asia Pacific, Europe, and North America. The market size is provided in terms of volume and value		
6.1	INTRODUCTION	100
6.1.1	RESEARCH METHODOLOGY	100
6.1.2	ASSUMPTIONS	100
6.1.3	INDUSTRY INSIGHTS	101
FIGURE 34	CELL TO PACK BATTERY MARKET, BY BATTERY FORM, 2023 VS. 2030	101
TABLE 20	CELL TO PACK BATTERY MARKET, BY BATTERY FORM, 2020?2022 (UNITS)	101
TABLE 21	CELL TO PACK BATTERY MARKET, BY BATTERY FORM, 2023?2030 (UNITS)	102
TABLE 22	CELL TO PACK BATTERY MARKET, BY BATTERY FORM, 2020?2022 (USD MILLION)	102
TABLE 23	CELL TO PACK BATTERY MARKET, BY BATTERY FORM, 2023?2030 (USD MILLION)	102
6.2	PRISMATIC CELLS	103
6.2.1	SIMPLE DESIGN AND HIGH-ENERGY-DENSITY CAPACITY TO BOOST MARKET	103
TABLE 24	PRISMATIC CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)	103
TABLE 25	PRISMATIC CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)	103
TABLE 26	PRISMATIC CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION)	104
TABLE 27	PRISMATIC CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION)	104
6.3	POUCH CELLS	104
6.3.1	FLEXIBLE STRUCTURAL FEATURE TO PROMOTE SEGMENT GROWTH	104
TABLE 28	POUCH CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)	105
TABLE 29	POUCH CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)	105
TABLE 30	POUCH CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION)	105
TABLE 31	POUCH CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION)	105
6.4	CYLINDRICAL CELLS	106
6.4.1	LESS SPACE UTILIZATION TO BOOST DEMAND	106
TABLE 32	CYLINDRICAL CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)	106
TABLE 33	CYLINDRICAL CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)	107
TABLE 34	CYLINDRICAL CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION)	107
TABLE 35	CYLINDRICAL CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION)	107

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## 7 CELL TO PACK BATTERY MARKET, BY BATTERY TYPE 108

Note: The chapter is provided on regional level - Asia Pacific, Europe, and North America. The market size is provided in terms of volume and value

### 7.1 INTRODUCTION 109

#### 7.1.1 RESEARCH METHODOLOGY 109

#### 7.1.2 ASSUMPTIONS 110

#### 7.1.3 INDUSTRY INSIGHTS 110

FIGURE 35 CELL TO PACK BATTERY MARKET, BY BATTERY TYPE, 2023 VS. 2030 (USD MILLION) 110

TABLE 36 CELL TO PACK BATTERY MARKET, BY BATTERY TYPE, 2020?2022 (UNITS) 111

TABLE 37 CELL TO PACK BATTERY MARKET, BY BATTERY TYPE, 2023?2030 (UNITS) 111

TABLE 38 CELL TO PACK BATTERY MARKET, BY BATTERY TYPE, 2020?2022 (USD MILLION) 111

TABLE 39 CELL TO PACK BATTERY MARKET, BY BATTERY TYPE, 2023?2030 (USD MILLION) 112

### 7.2 LITHIUM IRON PHOSPHATE BATTERIES (LFP) 112

#### 7.2.1 LOW-COST FEATURE TO BENEFIT SEGMENT 112

TABLE 40 LFP: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS) 112

TABLE 41 LFP: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS) 113

TABLE 42 LFP: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION) 113

TABLE 43 LFP: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION) 113

### 7.3 NICKEL MANGANESE COBALT BATTERIES (NMC) 114

#### 7.3.1 HIGHER ENERGY DENSITY TO STRENGTHEN SEGMENTAL GROWTH 114

TABLE 44 NMC: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS) 114

TABLE 45 NMC: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS) 114

TABLE 46 NMC: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION) 115

TABLE 47 NMC: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION) 115

### 7.4 OTHER BATTERY TYPES 115

#### 7.4.1 NEED TO REDUCE DEPENDENCY ON LFP BATTERIES TO PROMOTE SEGMENT EXPANSION 115

TABLE 48 OTHER BATTERY TYPES: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS) 116

TABLE 49 OTHER BATTERY TYPES: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS) 116

TABLE 50 OTHER BATTERY TYPES: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION) 116

TABLE 51 OTHER BATTERY TYPES: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION) 117

## 8 CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE 118

Note: The chapter is on regional level - Asia Pacific, Europe, and North America. The market size is provided in terms of volume and value

### 8.1 INTRODUCTION 119

#### 8.1.1 RESEARCH METHODOLOGY 119

#### 8.1.2 ASSUMPTIONS 119

#### 8.1.3 INDUSTRY INSIGHTS 120

FIGURE 36 CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2023 VS. 2030 (USD MILLION) 120

TABLE 52 CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2020?2022 (UNITS) 120

TABLE 53 CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2023?2030 (UNITS) 121

TABLE 54 CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2020?2022 (USD MILLION) 121

TABLE 55 CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2023?2030 (USD MILLION) 121

### 8.2 ELECTRIC PASSENGER CARS 122

#### 8.2.1 RISING DEMAND FOR LONG-RANGE AND LIGHTWEIGHT BATTERIES TO DRIVE SEGMENT GROWTH 122

TABLE 56 ELECTRIC PASSENGER CARS: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS) 122

TABLE 57 ELECTRIC PASSENGER CARS: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS) 122

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TABLE 58□ELECTRIC PASSENGER CARS: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION)□123

TABLE 59□ELECTRIC PASSENGER CARS: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION)□123

8.3□ELECTRIC BUSES□123

8.3.1□GROWING TREND OF ELECTRIFICATION OF PUBLIC TRANSPORT BUSES TO DRIVE DEMAND FOR HIGH-ENERGY-DENSITY BATTERIES□123

TABLE 60□ELECTRIC BUSES: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)□124

TABLE 61□ELECTRIC BUSES: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)□124

TABLE 62□ELECTRIC BUSES: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION)□124

TABLE 63□ELECTRIC BUSES: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION)□125

8.4□ELECTRIC TRUCKS□125

8.4.1□RISING TREND FOR ELECTRIFICATION OF TRUCKS TO CREATE OPPORTUNITIES FOR MARKET□125

TABLE 64□ELECTRIC TRUCKS: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)□125

TABLE 65□ELECTRIC TRUCKS: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)□126

TABLE 66□ELECTRIC TRUCKS: CELL TO PACK BATTERY MARKET, BY REGION, 2020-2022 (USD MILLION)□126

TABLE 67□ELECTRIC TRUCKS: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION)□126

9□CELL TO PACK BATTERY MARKET, BY PROPULSION□127

Note: The chapter is provided on regional level - Asia Pacific, Europe, and North America. The market size is provided in terms of volume and value

9.1□INTRODUCTION□128

9.1.1□RESEARCH METHODOLOGY□128

9.1.2□ASSUMPTIONS□129

9.1.3□INDUSTRY INSIGHTS□129

FIGURE 37□CELL TO PACK BATTERY MARKET, BY PROPULSION, 2023 VS. 2030 (USD MILLION)□129

TABLE 68□CELL TO PACK BATTERY MARKET, BY PROPULSION, 2020?2022 (UNITS)□129

TABLE 69□CELL TO PACK BATTERY MARKET, BY PROPULSION, 2023?2030 (UNITS)□130

TABLE 70□CELL TO PACK BATTERY MARKET, BY PROPULSION, 2020?2022 (USD MILLION)□130

TABLE 71□CELL TO PACK BATTERY MARKET, BY PROPULSION, 2023?2030 (USD MILLION)□130

9.2□BATTERY ELECTRIC VEHICLES (BEVS)□131

9.2.1□RISING DEMAND FOR LIGHTWEIGHT, COST-EFFICIENT, AND HIGH-ENERGY-DENSITY BATTERIES TO DRIVE MARKET□131

TABLE 72□BATTERY ELECTRIC VEHICLE: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)□131

TABLE 73□BATTERY ELECTRIC VEHICLE: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)□131

TABLE 74□BATTERY ELECTRIC VEHICLE: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION)□132

TABLE 75□BATTERY ELECTRIC VEHICLE: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION)□132

9.3□PLUG-IN HYBRID ELECTRIC VEHICLES (PHEVS)□132

9.3.1□INCREASE IN PHEV DEMAND TO SUPPORT MARKET GROWTH□132

TABLE 76□PLUG-IN HYBRID ELECTRIC VEHICLE: CELL TO PACK BATTERY MARKET, BY REGION, 2020-2022 (UNITS)□133

TABLE 77□PLUG-IN HYBRID ELECTRIC VEHICLE: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)□133

TABLE 78□PLUG-IN HYBRID ELECTRIC VEHICLE: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION)□133

TABLE 79□PLUG-IN HYBRID ELECTRIC VEHICLE: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION)□134

10□CELL TO PACK BATTERY MARKET, BY TECHNOLOGY□135

Note: The chapter is provided on regional level - Asia Pacific, Europe, and North America. The market size is provided in terms of volume

10.1□INTRODUCTION□136

10.1.1□RESEARCH METHODOLOGY□136

10.1.2□ASSUMPTIONS□136

10.1.3□INDUSTRY INSIGHTS□137

FIGURE 38□CELL TO PACK BATTERY MARKET, BY TECHNOLOGY, 2023 VS. 2030 (THOUSAND UNITS)□137

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TABLE 80	CELL TO PACK BATTERY MARKET, BY BATTERY TECHNOLOGY, 2020?2022 (UNITS)	137
TABLE 81	CELL TO PACK BATTERY MARKET, BY BATTERY TECHNOLOGY, 2023?2030 (UNITS)	138
10.2	BLADE BATTERY	138
10.2.1	HIGHER VCTPR AND GCTPR OF BLADE BATTERIES TO SUPPORT GROWTH	138
TABLE 82	BLADE BATTERY: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)	139
TABLE 83	BLADE BATTERY: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)	139
10.3	LISER BATTERY	139
10.3.1	100% NICKEL AND COBALT-FREE FEATURE TO DRIVE SEGMENTAL GROWTH	139
TABLE 84	LISER BATTERY: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)	140
TABLE 85	LISER BATTERY: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)	140
10.4	OTHER BATTERY TECHNOLOGIES	141
10.4.1	HIGH COMPETITION IN EV BATTERY MARKET TO DRIVE DEMAND	141
TABLE 86	OTHER BATTERY TECHNOLOGIES: CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)	141
TABLE 87	OTHER BATTERY TECHNOLOGIES: CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)	141
11	CELL TO PACK BATTERY MARKET, BY REGION	142
Note: The chapter is provided by vehicle type at country level - Asia Pacific (China, India, Japan, South Korea), Europe (France, Germany, Norway, The Netherlands, Switzerland, Spain, Sweden, UK, and Europe Others) and North America (US and Canada). The market size is provided in terms of volume and value		
11.1	INTRODUCTION	143
11.1.1	RESEARCH METHODOLOGY	143
11.1.2	ASSUMPTIONS	144
11.1.3	INDUSTRY INSIGHTS	144
FIGURE 39	CELL TO PACK BATTERY MARKET, BY REGION, 2023 VS. 2030 (USD MILLION)	144
TABLE 88	CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (UNITS)	145
TABLE 89	CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (UNITS)	145
TABLE 90	CELL TO PACK BATTERY MARKET, BY REGION, 2020?2022 (USD MILLION)	145
TABLE 91	CELL TO PACK BATTERY MARKET, BY REGION, 2023?2030 (USD MILLION)	145
11.2	ASIA PACIFIC	146
FIGURE 40	ASIA PACIFIC: CELL TO PACK BATTERY MARKET SNAPSHOT	147
TABLE 92	ASIA PACIFIC: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2020?2022 (UNITS)	147
TABLE 93	ASIA PACIFIC: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2023?2030 (UNITS)	148
TABLE 94	ASIA PACIFIC: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2020?2022 (USD MILLION)	148
TABLE 95	ASIA PACIFIC: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2023?2030 (USD MILLION)	148
11.2.1	CHINA	149
11.2.1.1	Rising EV demand and increasing technological advancement for improved battery performance	149
TABLE 96	CHINA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	149
TABLE 97	CHINA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	149
TABLE 98	CHINA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	150
TABLE 99	CHINA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	150
11.2.2	JAPAN	150
11.2.2.1	Regional EV OEMs partnering with battery suppliers to use advanced battery solutions	150
TABLE 100	JAPAN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	151
TABLE 101	JAPAN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	151
TABLE 102	JAPAN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	151
TABLE 103	JAPAN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	152
11.2.3	INDIA	152
11.2.3.1	Government subsidies and incentives to drive market	152

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TABLE 104	INDIA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	153
TABLE 105	INDIA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	153
TABLE 106	INDIA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	153
TABLE 107	INDIA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023-2030 (USD MILLION)	154
11.2.4	SOUTH KOREA	154
11.2.4.1	Increasing focus on sustainable electric mobility to boost market	154
TABLE 108	SOUTH KOREA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	154
TABLE 109	SOUTH KOREA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	155
TABLE 110	SOUTH KOREA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	155
TABLE 111	SOUTH KOREA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	155
11.3	EUROPE	156
FIGURE 41	EUROPE: CELL TO PACK BATTERY MARKET SNAPSHOT	157
TABLE 112	EUROPE: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2020?2022 (UNITS)	158
TABLE 113	EUROPE: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2023?2030 (UNITS)	158
TABLE 114	EUROPE: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2020?2022 (USD MILLION)	159
TABLE 115	EUROPE: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2023?2030(USD MILLION)	159
11.3.1	FRANCE	160
11.3.1.1	Rise in e-logistics transport to drive market	160
TABLE 116	FRANCE: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	160
TABLE 117	FRANCE: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	160
TABLE 118	FRANCE: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	161
TABLE 119	FRANCE: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	161
11.3.2	GERMANY	161
11.3.2.1	Presence of leading companies and higher demand for BEVs to benefit market	161
TABLE 120	GERMANY: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	162
TABLE 121	GERMANY: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	162
TABLE 122	GERMANY: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	162
TABLE 123	GERMANY: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	163
11.3.3	NORWAY	163
11.3.3.1	Replacement of conventional vehicles with advanced EVs to drive market	163
TABLE 124	NORWAY: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	164
TABLE 125	NORWAY: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2023?2030 (UNITS)	164
TABLE 126	NORWAY: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	164
TABLE 127	NORWAY: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	165
11.3.4	SWITZERLAND	165
11.3.4.1	Rapid adoption of EVs to create demand for high energy density batteries to boost market	165
TABLE 128	SWITZERLAND: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	165
TABLE 129	SWITZERLAND: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	166
TABLE 130	SWITZERLAND: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	166
TABLE 131	SWITZERLAND: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	166
11.3.5	NETHERLANDS	167
11.3.5.1	Rising focus on enhanced battery technology in commercial vehicles to strengthen market	167
TABLE 132	NETHERLANDS: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	167
TABLE 133	NETHERLANDS: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	167
TABLE 134	NETHERLANDS: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2020?2022 (USD MILLION)	168
TABLE 135	NETHERLANDS: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	168
11.3.6	SPAIN	168

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11.3.6.1	Rising domestic battery cell production to offer opportunities	168
TABLE 136	SPAIN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	169
TABLE 137	SPAIN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	169
TABLE 138	SPAIN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	169
TABLE 139	SPAIN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	170
11.3.7	SWEDEN	170
11.3.7.1	Presence of OEMs to boost demand for EV batteries	170
TABLE 140	SWEDEN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	170
TABLE 141	SWEDEN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	171
TABLE 142	SWEDEN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	171
TABLE 143	SWEDEN: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	171
11.3.8	UK	172
11.3.8.1	Increasing presence of international EV manufacturers to augment market size	172
TABLE 144	UK: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	172
TABLE 145	UK: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2023?2030 (UNITS)	172
TABLE 146	UK: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	173
TABLE 147	UK: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2023?2030 (USD MILLION)	173
11.3.9	EUROPE OTHERS	173
TABLE 148	EUROPE OTHERS: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	174
TABLE 149	EUROPE OTHERS: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	174
TABLE 150	EUROPE OTHERS: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	174
TABLE 151	EUROPE OTHERS: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	175
11.4	NORTH AMERICA	175
FIGURE 42	NORTH AMERICA: CELL TO PACK BATTERY MARKET, BY REGION, 2023 VS. 2030 (USD MILLION)	176
TABLE 152	NORTH AMERICA: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2020?2022 (UNITS)	176
TABLE 153	NORTH AMERICA: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2023?2030 (UNITS)	176
TABLE 154	NORTH AMERICA: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2020?2022 (USD MILLION)	177
TABLE 155	NORTH AMERICA: CELL TO PACK BATTERY MARKET, BY COUNTRY, 2023?2030 (USD MILLION)	177
11.4.1	US	177
11.4.1.1	Growing demand for electric SUVs to drive market	177
TABLE 156	US: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	178
TABLE 157	US: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	178
TABLE 158	US: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	178
TABLE 159	US: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE TYPE, 2023?2030 (USD MILLION)	179
11.4.2	CANADA	179
11.4.2.1	Government subsidies to promote EVs to drive market	179
TABLE 160	CANADA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (UNITS)	179
TABLE 161	CANADA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (UNITS)	180
TABLE 162	CANADA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2020?2022 (USD MILLION)	180
TABLE 163	CANADA: CELL TO PACK BATTERY MARKET, BY ELECTRIC VEHICLE, 2023?2030 (USD MILLION)	180
12	RECOMMENDATIONS BY MARKETSANDMARKETS	181
12.1	ADVANCEMENT IN BATTERY PACKS TO DRIVE CELL TO PACK BATTERY DEMAND	181
12.2	DEMAND FOR EFFICIENT AND LOW-COST BATTERY CHEMISTRY TO DRIVE MARKET	182
12.3	CONCLUSION	182
13	COMPETITIVE LANDSCAPE	183
13.1	OVERVIEW	183
13.2	CELL TO PACK BATTERY MARKET RANKING, 2022	183

FIGURE 43	CELL TO PACK BATTERY MARKET RANKING, 2022	183
13.3	REVENUE ANALYSIS OF TOP FIVE PLAYERS	185
FIGURE 44	CELL TO PACK BATTERY MARKET, REVENUE ANALYSIS	185
13.4	COMPANY EVALUATION QUADRANT	185
13.4.1	TERMINOLOGY	185
13.4.2	STARS	186
13.4.3	PERVASIVE PLAYERS	186
13.4.4	EMERGING LEADERS	186
13.4.5	PARTICIPANTS	186
FIGURE 45	CELL TO PACK BATTERY MARKET COMPETITIVE LEADERSHIP MAPPING, 2022	187
13.5	CELL TO PACK BATTERY MARKET: COMPANY FOOTPRINT	188
TABLE 164	CELL TO PACK BATTERY MARKET: COMPANY FOOTPRINT ANALYSIS, 2022	188
TABLE 165	CELL TO PACK BATTERY MARKET: COMPANY PRODUCT CATEGORY FOOTPRINT, 2022	189
TABLE 166	CELL TO PACK BATTERY MARKET: COMPANY REGION FOOTPRINT, 2022	190
13.6	COMPETITIVE BENCHMARKING	191
TABLE 167	CELL TO PACK BATTERY MARKET: KEY SMES	191
TABLE 168	CELL TO PACK BATTERY MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS [SMES]	192
13.7	COMPETITIVE SCENARIO	193
13.7.1	PRODUCT LAUNCHES	193
TABLE 169	PRODUCT LAUNCHES, 2019?2022	193
13.7.2	DEALS	194
TABLE 170	DEALS, 2020?2022	194
13.7.3	OTHERS	200
TABLE 171	OTHERS, 2020?2022	200
13.8	STRATEGIES ADOPTED BY KEY PLAYERS	202
TABLE 172	OVERVIEW OF STRATEGIES DEPLOYED BY KEY CELL TO PACK BATTERY MARKET OEMS	202
14	COMPANY PROFILES	205
(Business overview, Products/Solutions/Services offered, Recent Developments, MNM view)*		
14.1	KEY PLAYERS	205
14.1.1	CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED.	205
TABLE 173	CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED.: BUSINESS OVERVIEW	205
FIGURE 46	CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED.: COMPANY SNAPSHOT	206
TABLE 174	CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED.: PRODUCT LAUNCHES	206
TABLE 175	CONTEMPORARY AMPEREX TECHNOLOGY LIMITED.: DEALS	207
TABLE 176	CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED.: OTHERS	209
14.1.2	LG ENERGY SOLUTION.	211
TABLE 177	LG ENERGY SOLUTION.: BUSINESS OVERVIEW	211
FIGURE 47	LG ENERGY SOLUTION.: COMPANY SNAPSHOT	212
TABLE 178	LG ENERGY SOLUTION.: PRODUCT LAUNCHES	212
TABLE 179	LG ENERGY SOLUTION.: DEALS	212
14.1.3	BYD COMPANY LTD.	215
TABLE 180	BYD COMPANY LTD.: BUSINESS OVERVIEW	215
FIGURE 48	BYD COMPANY LTD.: COMPANY SNAPSHOT	216
TABLE 181	BYD COMPANY LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	216
TABLE 182	BYD COMPANY LTD.: PRODUCT LAUNCHES	217
TABLE 183	BYD COMPANY LTD.: DEALS	218
TABLE 184	BYD COMPANY LTD: OTHERS	218

14.1.4	C4V	220
TABLE 185	C4V: BUSINESS OVERVIEW	220
TABLE 186	C4V: PRODUCT LAUNCHES	221
TABLE 187	C4V: DEALS	221
14.1.5	SUNWODA ELECTRONIC CO., LTD.	223
TABLE 188	SUNWODA ELECTRONIC CO., LTD.: BUSINESS OVERVIEW	223
FIGURE 49	SUNWODA ELECTRONIC CO., LTD.: COMPANY SNAPSHOT	224
TABLE 189	SUNWODA ELECTRONIC CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	224
TABLE 190	SUNWODA ELECTRONIC CO., LTD.: PRODUCT LAUNCHES	225
TABLE 191	SUNWODA ELECTRONIC CO., LTD.: DEALS	225
TABLE 192	SUNWODA ELECTRONIC CO., LTD.: OTHERS	226
14.1.6	TESLA	228
TABLE 193	TESLA: BUSINESS OVERVIEW	228
FIGURE 50	TESLA: COMPANY SNAPSHOT	229
TABLE 194	TESLA: DEALS	229
14.1.7	PANASONIC HOLDINGS CORPORATION	230
TABLE 195	PANASONIC HOLDINGS CORPORATION: BUSINESS OVERVIEW	230
FIGURE 51	PANASONIC HOLDINGS CORPORATION: COMPANY SNAPSHOT	231
TABLE 196	PANASONIC HOLDINGS CORPORATION: DEALS	231
TABLE 197	PANASONIC HOLDINGS CORPORATION: OTHERS	232
14.1.8	ELEVENES	233
TABLE 198	ELEVENES: BUSINESS OVERVIEW	233
14.1.9	ELECTRA	234
TABLE 199	ELECTRA: BUSINESS OVERVIEW	234
TABLE 200	ELECTRA: DEALS	234
14.1.10	CAMELOT ELECTRONIC TECHNOLOGY CO., LTD.	235
TABLE 201	CAMELOT ELECTRONIC TECHNOLOGY CO., LTD.: BUSINESS OVERVIEW	235
TABLE 202	CAMELOT ELECTRONIC TECHNOLOGY LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	235
14.1.11	SILVER POWER SYSTEMS	236
TABLE 203	SILVER POWER SYSTEMS: BUSINESS OVERVIEW	236
14.1.12	BMW AG	237
TABLE 204	BMW AG: BUSINESS OVERVIEW	237
FIGURE 52	BMW AG: COMPANY SNAPSHOT	238
TABLE 205	BMW AG: DEALS	239
14.1.13	FORD MOTOR COMPANY	240
TABLE 206	FORD MOTOR COMPANY: BUSINESS OVERVIEW	240
FIGURE 53	FORD MOTOR COMPANY: COMPANY SNAPSHOT	241
TABLE 207	FORD MOTOR COMPANY: DEALS	241
14.1.14	SOLARIS BUS & COACH SP. Z O.O.	242
TABLE 208	SOLARIS BUS & COACH SP. Z O.O.: BUSINESS OVERVIEW	242
TABLE 209	SOLARIS BUS & COACH SP. Z O.O.: DEALS	242
14.1.15	HENKEL AG & CO. KGAA	243
TABLE 210	HENKEL AG & CO. KGAA: BUSINESS OVERVIEW	243
FIGURE 54	HENKEL AG & CO. KGAA: COMPANY SNAPSHOT	244
TABLE 211	HENKEL AG & CO. KGAA: PRODUCTS/SOLUTIONS/SERVICES OFFERED	244
TABLE 212	HENKEL AG & CO. KGAA.: DEALS	245
TABLE 213	HENKEL AG & CO. KGAA: OTHERS	245

14.1.16 AZL AACHEN GMBH 246

TABLE 214 AZL AACHEN GMBH: BUSINESS OVERVIEW 246

14.1.17 XPENG INC. 247

TABLE 215 XPENG INC.: BUSINESS OVERVIEW 247

FIGURE 55 XPENG INC.: COMPANY SNAPSHOT 248

TABLE 216 XPENG INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED 248

TABLE 217 XPENG INC.: PRODUCT LAUNCHES 249

TABLE 218 XPENG INC.: OTHERS 249

14.1.18 NIO 250

TABLE 219 NIO: BUSINESS OVERVIEW 250

FIGURE 56 NIO.: COMPANY SNAPSHOT 251

TABLE 220 NIO INC.: PRODUCT LAUNCHES 251

14.1.19 VDL BUS & COACH BV 252

TABLE 221 VDL BUS & COACH BV: BUSINESS OVERVIEW 252

TABLE 222 VDL BUS & COACH BV: DEALS 252

14.1.20 HOZON NEW ENERGY AUTOMOBILE CO. LTD 253

TABLE 223 HOZON NEW ENERGY AUTOMOBILE CO. LTD: BUSINESS OVERVIEW 253

TABLE 224 HOZON NEW ENERGY AUTOMOBILE CO. LTD: DEALS 253

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

?

15 APPENDIX 254

15.1 KEY INSIGHTS FROM INDUSTRY EXPERTS 254

15.2 DISCUSSION GUIDE 255

15.3 KNOWLEDGESTORE: MARKETSANDMARKETS? SUBSCRIPTION PORTAL 258

15.4 CUSTOMIZATION OPTIONS 260

15.4.1 CELL TO PACK BATTERY MARKET, BY VEHICLE AND PROPULSION TYPE 260

15.4.2 CELL TO PACK BATTERY MARKET, BY PROPULSION AND COUNTRY 260

15.5 RELATED REPORTS 260

15.6 AUTHOR DETAILS 261

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**Cell to Pack Battery Market by Form (Prismatic, Pouch, Cylindrical), Battery Type (LFP, NMC), Propulsion (BEV, PHEV), Technology (Blade, LiSER), Vehicle Type (Passenger Cars, Commercial Vehicles) and Region - Global Forecast to 2030**

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\*\* 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.

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