

# Lithium-Ion Battery Anode Market by Materials (Active Anode Materials and Anode Binders), Battery Product (Cell and Battery Pack), End-Use (Automotive and Non-Automotive), and Region (Asia Pacific, Europe, and North America) - Global Forecast to 2028

<https://marketpublishers.com/r/L4A379DD1A36EN.html>

Date: April 2024

Pages: 209

Price: US\$ 4,950.00 (Single User License)

ID: L4A379DD1A36EN

## Abstracts

The Lithium-Ion Battery Anode Market is projected to grow from USD 12.0 billion in 2023 to USD 46.5 billion by 2028, at a CAGR of 31.2% during the forecast period. The surge in the market is driven by a double threat: affordability. They offer a cost-effective solution for large-scale energy storage in renewables, perfect for managing wind and solar power fluctuations. Their reliance on standard sodium also positions them as a more sustainable option, aligning perfectly with the global push to reduce our environmental impact.

“The Natural Graphite active anode segment, by material, is projected to register the highest CAGR during the forecast period, in terms of value.”

The natural graphite active anode material is projected to be the fastest-growing material during the forecast period. The material is preferred for its optimal qualities, making it widely used in lithium-ion battery anodes. This material is experiencing growth driven by its cost-effectiveness, lower environmental impact, higher capacity, and potential for increased market penetration. The demand for natural graphite active anode materials is mainly fueled by the global surge in battery electric vehicle adoption, supported by government policies, infrastructure development, consumer preferences, and advancing technologies reducing manufacturing costs.

“The automotive segment by end-use accounts for the largest lithium-ion battery anode during the forecast period in terms of value.”

Electric vehicles (EVs) are poised for a significant surge, fueled in part by stricter environmental regulations and a growing emphasis on clean air. Public awareness about sustainability and the benefits of clean fuels is driving consumer demand for EVs, which in turn is pushing the need for more lithium-ion battery anodes. Additionally, government initiatives offering incentives and subsidies for EV purchases are further accelerating market growth.

“Asia Pacific is projected to account for the largest share lithium-ion battery anode market during the forecast period, in terms of value.”

The Asia Pacific region is poised to dominate the lithium-ion battery anode market, reaching a projected value of USD 39.4 billion by 2028. This leadership role is fueled by a perfect storm. The region has become a manufacturing powerhouse, particularly in the automotive sector. Improved infrastructure and industrialization are attracting Original Equipment Manufacturers (OEMs) to set up shop, leading to a surge in car production. At the same time, rising disposable incomes are putting more money in people's pockets, boosting demand for consumer electronics. Both trends translate to a growing need for lithium-ion batteries, and consequently, their key component: lithium-ion battery anodes. This confluence of a thriving automotive industry and a booming consumer electronics market cements Asia Pacific's position as the undisputed leader in the lithium-ion battery anode market.

This study was validated through primary interviews conducted with various industry experts worldwide. The primary sources were divided into three categories, namely, company type, designation, and region.

By Company Type– Tier 1 – 40%, Tier 2 – 20%, and Tier 3 – 40%

By Designation– C-level Executives – 20%, Director Level– 50%, and Others–30%

By Region– North America – 20%, Europe – 10%, Asia Pacific – 40%, Rest of the World– 30%

The report profiles several leading players of the lithium-ion battery anode market that include Ningbo Shanshan Co., Ltd. (China), Jiangxi Zhengtuo New Energy Technology (China), Resonac Holdings Corporation (Japan), POSCO FUTURE M (South Korea),

Mitsubishi Chemical Group Corporation (Japan), and SGL Carbon (Germany). The report also includes detailed information about various growth strategies adopted by these key players to strengthen their position in the lithium-ion battery anode market.

#### Research Coverage:

The report defines, segments, and projects the lithium-ion battery anode market based on materials, battery product, end-use, and region. It provides detailed information regarding the major factors influencing the growth of the market, such as drivers, restraints, opportunities, and challenges. It strategically profiles, lithium-ion battery anode manufacturers and comprehensively analyses their market shares and core competencies as well as tracks and analyzes competitive developments, such as expansions, joint ventures, agreements, and acquisitions, 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 the closest approximations of revenue numbers of the lithium-ion battery anode 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 EV vehicles, Growing need for automation and battery-operated equipment in industries, High demand for lithium-ion batteries for industrial applications, Increase in R&D initiatives by lithium-ion battery manufacturers), restraints (Safety issues related to storage and transportation of lithium-ion batteries), opportunities (Innovation and technology advances in lithium-ion battery anode materials, Increasing adoption of lithium-ion batteries in new applications), and challenges (Overheating of lithium-ion batteries, High cost of battery-operated industrial vehicles) influencing the growth of the lithium-ion battery anode market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities in the Lithium-Ion Battery Anode Market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the Lithium-Ion Battery Anode Market across varied regions.

**Market Diversification:** Exhaustive information about various types, untapped geographies, recent developments, and investments in the Lithium-Ion Battery Anode market.

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and product offerings of leading players such as Ningbo Shanshan Co., Ltd. (China), Jiangxi Zhengtuo New Energy Technology (China), Resonac Holdings Corporation (Japan), POSCO FUTURE M (South Korea), Mitsubishi Chemical Group Corporation (Japan), and SGL Carbon (Germany) and others in the lithium-ion battery anode market.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 COMPETITIVE INTELLIGENCE

#### 1.3 MARKET DEFINITION

##### 1.3.1 INCLUSIONS AND EXCLUSIONS

#### TABLE 1 LITHIUM-ION BATTERY ANODE MARKET: INCLUSIONS AND EXCLUSIONS

#### 1.4 MARKET SCOPE

#### FIGURE 1 LITHIUM-ION BATTERY ANODE MARKET SEGMENTATION

##### 1.4.1 REGIONS COVERED

##### 1.4.2 YEARS CONSIDERED

##### 1.4.3 CURRENCY CONSIDERED

##### 1.4.4 UNITS CONSIDERED

#### 1.5 RESEARCH LIMITATIONS

#### 1.6 STAKEHOLDERS

#### 1.7 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 2 LITHIUM-ION BATTERY ANODE MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY DATA

###### 2.1.1.1 Key data from secondary sources

##### 2.1.2 PRIMARY DATA

###### 2.1.2.1 Key data from primary sources

###### 2.1.2.2 Breakdown of interviews with experts

#### 2.2 MATRIX CONSIDERED FOR DEMAND-SIDE ANALYSIS

#### FIGURE 3 MATRIX CONSIDERED FOR ESTIMATING DEMAND FOR LITHIUM-ION BATTERY ANODES

#### 2.3 MARKET SIZE ESTIMATION

##### 2.3.1 BOTTOM UP APPROACH

#### FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM UP APPROACH

##### 2.3.2 TOP-DOWN APPROACH

#### FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

#### FIGURE 6 METHODOLOGY FOR SUPPLY-SIDE SIZING OF LITHIUM-ION BATTERY ANODE MARKET (1/2)

## FIGURE 7 METHODOLOGY FOR SUPPLY-SIDE SIZING OF LITHIUM-ION BATTERY ANODE MARKET (2/2)

2.3.2.1 Calculations for supply-side analysis

## 2.4 GROWTH RATE ASSUMPTIONS/GROWTH FORECAST

## 2.5 DATA TRIANGULATION

## FIGURE 8 LITHIUM-ION BATTERY ANODE MARKET: DATA TRIANGULATION

## 2.6 IMPACT OF RECESSION

2.6.1 KEY ASSUMPTIONS WHILE CALCULATING DEMAND SIDE MARKET SIZE

2.6.2 LIMITATIONS

2.6.3 RISK ANALYSIS

## 3 EXECUTIVE SUMMARY

TABLE 2 LITHIUM-ION BATTERY ANODE MARKET SNAPSHOT: 2023 VS. 2028

FIGURE 9 ACTIVE ANODE MATERIALS SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 10 AUTOMOTIVE SEGMENT TO ACCOUNT FOR LARGER MARKET SHARE DURING FORECAST PERIOD

FIGURE 11 ASIA PACIFIC DOMINATED LITHIUM-ION BATTERY ANODE MARKET IN 2022

## 4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN LITHIUM-ION BATTERY ANODE MARKET

FIGURE 12 LITHIUM-ION BATTERY ANODE MARKET TO WITNESS SIGNIFICANT GROWTH BETWEEN 2023 AND 2028

4.2 LITHIUM-ION BATTERY ANODE MARKET, BY REGION

FIGURE 13 ASIA PACIFIC TO DOMINATE MARKET DURING FORECAST PERIOD

4.3 LITHIUM-ION BATTERY ANODE MARKET, BY MAJOR COUNTRY

FIGURE 14 CHINA TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

## 5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 15 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN LITHIUM-ION BATTERY ANODE MARKET

5.2.1 DRIVERS

#### 5.2.1.1 Increase in demand for EVs

TABLE 3 ELECTRIC CAR SALES, BY KEY COUNTRY, 2020–2023

FIGURE 16 GLOBAL COMBINED SALES OF BATTERY ELECTRIC VEHICLES AND PLUG-IN HYBRIDS

#### 5.2.1.2 Growing need for automation and battery-operated equipment in industries

#### 5.2.1.3 Rising demand for lithium-ion batteries for industrial applications

#### 5.2.1.4 Increasing R&D initiatives by lithium-ion battery manufacturers

### 5.2.2 RESTRAINTS

#### 5.2.2.1 Safety issues related to storage and transportation of batteries

### 5.2.3 OPPORTUNITIES

#### 5.2.3.1 Increasing adoption of lithium-ion batteries in new applications

#### 5.2.3.2 Innovation and technological advances in lithium-ion battery anode materials

### 5.2.4 CHALLENGES

#### 5.2.4.1 Overheating issues of lithium-ion batteries

#### 5.2.4.2 High cost of lithium-ion battery-operated industrial vehicles

## 5.3 PORTER'S FIVE FORCES ANALYSIS

FIGURE 17 PORTER'S FIVE FORCES ANALYSIS FOR LITHIUM-ION BATTERY ANODE MARKET

TABLE 4 LITHIUM-ION BATTERY ANODE MARKET: PORTER'S FIVE FORCES ANALYSIS

#### 5.3.1 THREAT OF SUBSTITUTES

#### 5.3.2 BARGAINING POWER OF SUPPLIERS

#### 5.3.3 BARGAINING POWER OF BUYERS

#### 5.3.4 THREAT OF NEW ENTRANTS

#### 5.3.5 INTENSITY OF COMPETITIVE RIVALRY

## 5.4 SUPPLY CHAIN ANALYSIS

FIGURE 18 SUPPLY CHAIN ANALYSIS FOR LITHIUM-ION BATTERY ANODE MARKET

#### 5.4.1 ECOSYSTEM/MARKET MAP

FIGURE 19 ECOSYSTEM/MARKET MAP OF LITHIUM-ION BATTERY ANODE MARKET

TABLE 5 ECOSYSTEM OF LITHIUM-ION BATTERY ANODE MARKET

## 5.5 TARIFF AND REGULATORY LANDSCAPE

#### 5.5.1 TARIFF RELATED TO LITHIUM-ION BATTERY

5.5.2 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 6 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 7 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND

## OTHER ORGANIZATIONS

### TABLE 8 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

## 5.6 TECHNOLOGY ANALYSIS

### 5.6.1 KEY TECHNOLOGIES

#### 5.6.1.1 Silicon anode

### 5.6.2 COMPLEMENTARY TECHNOLOGIES

#### 5.6.2.1 Nanostructured electrodes

## 5.7 KEY CONFERENCES AND EVENTS, 2024

### TABLE 9 LITHIUM-ION BATTERY ANODE MARKET: KEY CONFERENCES AND EVENTS, 2024

## 5.8 TRADE DATA

### 5.8.1 IMPORT DATA

### TABLE 10 IMPORT DATA ON LITHIUM CELLS AND BATTERIES

### 5.8.2 EXPORT DATA

### TABLE 11 EXPORT DATA ON LITHIUM CELLS AND BATTERIES

## 5.9 PRICING ANALYSIS

### 5.9.1 AVERAGE SELLING PRICE OF LITHIUM-ION BATTERY, BY REGION

### FIGURE 20 AVERAGE SELLING PRICE OF LITHIUM-ION BATTERY, BY REGION

### 5.9.2 AVERAGE SELLING PRICE OF LITHIUM-ION BATTERY, BY CHEMISTRY

### FIGURE 21 AVERAGE SELLING PRICE OF LITHIUM-ION BATTERY, BY CHEMISTRY

## 5.10 KEY STAKEHOLDERS AND BUYING CRITERIA

### 5.10.1 KEY STAKEHOLDERS IN BUYING PROCESS

### FIGURE 22 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR MAJOR END USES

### TABLE 12 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR MAJOR END USES (%)

### 5.10.2 BUYING CRITERIA

### FIGURE 23 KEY BUYING CRITERIA FOR TOP THREE END USES

### TABLE 13 KEY BUYING CRITERIA FOR TOP THREE END USES

## 5.11 PATENT ANALYSIS

### 5.11.1 METHODOLOGY

### FIGURE 24 LIST OF MAJOR PATENTS FOR LITHIUM-ION BATTERY ANODE

### 5.11.2 MAJOR PATENTS

## 5.12 INVESTMENT & FUNDING SCENARIO

### FIGURE 25 INVESTMENT & FUNDING OF STARTUPS/SMES FOR LITHIUM-ION BATTERY ANODE

## 5.13 CASE STUDY ANALYSIS



### 5.13.1 GROUP 14 TECHNOLOGIES' SILICON-BASED ANODE TO REPLACE GRAPHITE IN LITHIUM-ION BATTERIES

5.13.1.1 Advanced silicon anode material by Group 14 Technologies, SCC55

### 5.14 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 26 TRENDS/DISRUPTIONS IMPACTING LITHIUM-ION BATTERY ECOSYSTEM

## **6 LITHIUM-ION BATTERY ANODE MARKET, BY BATTERY PRODUCT**

### 6.1 INTRODUCTION

FIGURE 27 TYPES OF LITHIUM-ION BATTERY PRODUCTS

### 6.2 CELLS

6.2.1 LOW WEIGHT AND COMPACT SIZE LEADING TO HIGH DEMAND

### 6.3 BATTERY PACKS

6.3.1 DEMAND FOR HIGH ENERGY DENSITY APPLICATIONS TO DRIVE MARKET

## **7 LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL**

### 7.1 INTRODUCTION

FIGURE 28 ACTIVE ANODE MATERIALS SEGMENT TO LEAD LITHIUM-ION BATTERY ANODE MARKET DURING FORECAST PERIOD

TABLE 14 LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 15 LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 16 LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 17 LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

### 7.2 ACTIVE ANODE MATERIALS

#### 7.2.1 NATURAL GRAPHITE

7.2.1.1 Cost-effective material to boost market growth

TABLE 18 NATURAL GRAPHITE: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2019–2022 (TON)

TABLE 19 NATURAL GRAPHITE: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2023–2028 (TON)

#### 7.2.2 SYNTHETIC GRAPHITE

7.2.2.1 Fast charging and long life cycle to drive market

TABLE 20 SYNTHETIC GRAPHITE: LITHIUM-ION BATTERY ANODE MARKET, BY

REGION, 2019–2022 (TON)

TABLE 21 SYNTHETIC GRAPHITE: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2023–2028 (TON)

### 7.2.3 SILICON

7.2.3.1 Higher charge capacity than graphite to drive market

TABLE 22 SILICON: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2019–2022 (TON)

TABLE 23 SILICON: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2023–2028 (TON)

### 7.2.4 LI-COMPOUNDS & LI-METALS

7.2.4.1 Fast charging and high energy density to propel demand

TABLE 24 LI-COMPOUNDS & LI-METALS: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2019–2022 (TON)

TABLE 25 LI-COMPOUNDS & LI-METALS: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2023–2028 (TON)

## 7.3 ANODE BINDERS

7.3.1 GROWING DEMAND FOR LITHIUM-ION BATTERIES TO DRIVE MARKET

TABLE 26 ANODE BINDERS: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2019–2022 (TON)

TABLE 27 ANODE BINDERS: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2023–2028 (TON)

## 8 LITHIUM-ION BATTERY ANODE MARKET, BY END USE

### 8.1 INTRODUCTION

FIGURE 29 AUTOMOTIVE SEGMENT TO LEAD LITHIUM-ION BATTERY ANODE MARKET DURING FORECAST PERIOD

TABLE 28 LITHIUM-ION BATTERY ANODE MARKET, BY END USE, 2019–2022 (USD MILLION)

TABLE 29 LITHIUM-ION BATTERY ANODE MARKET, BY END USE, 2023–2028 (USD MILLION)

TABLE 30 NON-AUTOMOTIVE: LITHIUM-ION BATTERY ANODE MARKET, BY END USE, 2019–2022 (USD MILLION)

TABLE 31 NON-AUTOMOTIVE: LITHIUM-ION BATTERY ANODE MARKET, BY END USE, 2023–2028 (USD MILLION)

### 8.2 AUTOMOTIVE

8.2.1 RISING DEMAND FOR EVS TO BOOST MARKET

### 8.3 NON-AUTOMOTIVE

8.3.1 ENERGY STORAGE

8.3.1.1 Increasing infrastructure to enhance demand

### 8.3.2 AEROSPACE

8.3.2.1 Growing demand from leading players in aircraft industry to drive market

### 8.3.3 MARINE

8.3.3.1 Significant reductions in cost of fuel, maintenance, and emissions in electric and hybrid ships to drive market

### 8.3.4 OTHER END USES

## 9 LITHIUM-ION BATTERY ANODE MARKET, BY REGION

### 9.1 INTRODUCTION

FIGURE 30 ASIA PACIFIC TO LEAD LITHIUM-ION BATTERY ANODE MARKET DURING FORECAST PERIOD

TABLE 32 LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2019–2022 (TON)

TABLE 33 LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2023–2028 (TON)

TABLE 34 LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 35 LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2023–2028 (USD MILLION)

### 9.2 NORTH AMERICA

9.2.1 IMPACT OF RECESSION ON NORTH AMERICA

FIGURE 31 NORTH AMERICA: LITHIUM-ION BATTERY ANODE MARKET SNAPSHOT

TABLE 36 NORTH AMERICA: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2019–2022 (TON)

TABLE 37 NORTH AMERICA: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2023–2028 (TON)

TABLE 38 NORTH AMERICA: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 39 NORTH AMERICA: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

#### 9.2.2 US

9.2.2.1 High level of innovation and product development contributing to market growth

TABLE 40 US: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 41 US: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 42 US: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE

MATERIALS, 2019–2022 (TON)

TABLE 43 US: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 44 US: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 45 US: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 46 US: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 47 US: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

### 9.3 EUROPE

#### 9.3.1 IMPACT OF RECESSION ON EUROPE

FIGURE 32 EUROPE: LITHIUM-ION BATTERY ANODE MARKET SNAPSHOT

TABLE 48 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2019–2022 (TON)

TABLE 49 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2023–2028 (TON)

TABLE 50 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 51 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 52 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 53 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 54 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 55 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 56 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 57 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 58 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 59 EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

#### 9.3.2 GERMANY

### 9.3.2.1 Increase in production of EVs to drive market

TABLE 60 GERMANY: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 61 GERMANY: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 62 GERMANY: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 63 GERMANY: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 64 GERMANY: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 65 GERMANY: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 66 GERMANY: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 67 GERMANY: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

### 9.3.3 HUNGARY

#### 9.3.3.1 Government focus on electromobility to drive market

TABLE 68 HUNGARY: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 69 HUNGARY: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 70 HUNGARY: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 71 HUNGARY: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 72 HUNGARY: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 73 HUNGARY: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 74 HUNGARY: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 75 HUNGARY: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

### 9.3.4 POLAND

#### 9.3.4.1 Adoption of EVs at significant pace to boost market

TABLE 76 POLAND: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 77 POLAND: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 78 POLAND: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 79 POLAND: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 80 POLAND: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 81 POLAND: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 82 POLAND: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 83 POLAND: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

### 9.3.5 SWEDEN

#### 9.3.5.1 Strong electric vehicle infrastructure to drive market

TABLE 84 SWEDEN: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 85 SWEDEN: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 86 SWEDEN: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 87 SWEDEN: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 88 SWEDEN: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 89 SWEDEN: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 90 SWEDEN: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 91 SWEDEN: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

### 9.3.6 FRANCE

9.3.6.1 Government initiatives for enhancement of electric ship and boat sector to drive market

TABLE 92 FRANCE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 93 FRANCE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 94 FRANCE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 95 FRANCE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 96 FRANCE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 97 FRANCE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 98 FRANCE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 99 FRANCE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

### 9.3.7 UK

9.3.7.1 Government initiatives for adoption of electric vehicles to drive market

TABLE 100 UK: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 101 UK: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 102 UK: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 103 UK: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 104 UK: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 105 UK: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 106 UK: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 107 UK: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

### 9.3.8 REST OF EUROPE

TABLE 108 REST OF EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 109 REST OF EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 110 REST OF EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 111 REST OF EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 112 REST OF EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 113 REST OF EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 114 REST OF EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 115 REST OF EUROPE: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

#### 9.4 ASIA PACIFIC

##### 9.4.1 IMPACT OF RECESSION ON ASIA PACIFIC

FIGURE 33 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET SNAPSHOT

TABLE 116 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2019–2022 (TON)

TABLE 117 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2023–2028 (TON)

TABLE 118 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 119 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 120 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 121 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 122 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 123 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 124 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 125 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 126 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 127 ASIA PACIFIC: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

##### 9.4.2 CHINA

9.4.2.1 Extensive growth in electronic devices and electric vehicles to drive market

TABLE 128 CHINA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)



TABLE 129 CHINA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 130 CHINA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 131 CHINA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 132 CHINA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 133 CHINA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 134 CHINA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 135 CHINA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

#### 9.4.3 SOUTH KOREA

9.4.3.1 Introduction of fuel cell electric and battery-powered electric buses to drive market

TABLE 136 SOUTH KOREA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 137 SOUTH KOREA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 138 SOUTH KOREA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 139 SOUTH KOREA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 140 SOUTH KOREA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 141 SOUTH KOREA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 142 SOUTH KOREA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 143 SOUTH KOREA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

#### 9.4.4 JAPAN

9.4.4.1 Presence of battery giants to drive market

TABLE 144 JAPAN: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 145 JAPAN: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 146 JAPAN: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 147 JAPAN: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 148 JAPAN: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 149 JAPAN: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 150 JAPAN: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 151 JAPAN: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

#### 9.4.5 THAILAND

##### 9.4.5.1 Strong automotive sector to drive market

TABLE 152 THAILAND: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 153 THAILAND: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 154 THAILAND: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 155 THAILAND: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 156 THAILAND: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 157 THAILAND: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 158 THAILAND: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 159 THAILAND: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

#### 9.4.6 AUSTRALIA

##### 9.4.6.1 Growth in demand for EVs to drive market

TABLE 160 AUSTRALIA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 161 AUSTRALIA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 162 AUSTRALIA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 163 AUSTRALIA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE

ANODE MATERIALS, 2023–2028 (TON)

TABLE 164 AUSTRALIA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 165 AUSTRALIA: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 166 AUSTRALIA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 167 AUSTRALIA: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

9.5 REST OF THE WORLD

9.5.1 IMPACT OF RECESSION

TABLE 168 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2019–2022 (TON)

TABLE 169 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2023–2028 (TON)

TABLE 170 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 171 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 172 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (TON)

TABLE 173 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (TON)

TABLE 174 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (TON)

TABLE 175 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (TON)

TABLE 176 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 177 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

TABLE 178 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2019–2022 (USD MILLION)

TABLE 179 REST OF THE WORLD: LITHIUM-ION BATTERY ANODE MARKET, BY ACTIVE ANODE MATERIALS, 2023–2028 (USD MILLION)

## 10 COMPETITIVE LANDSCAPE

### 10.1 INTRODUCTION

## 10.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

### 10.2.1 OVERVIEW OF STRATEGIES ADOPTED BY KEY MANUFACTURERS

## 10.3 REVENUE ANALYSIS, 2018–2022

### FIGURE 34 REVENUE ANALYSIS OF KEY COMPANIES, 2018–2022

## 10.4 MARKET SHARE ANALYSIS, 2022

### FIGURE 35 LITHIUM-ION BATTERY ANODE MARKET SHARE ANALYSIS

## TABLE 180 DEGREE OF COMPETITION: LITHIUM-ION BATTERY ANODE MARKET

### 10.4.1 NINGBO SHANSHAN CO., LTD. (CHINA)

### 10.4.2 JIANGXI ZHENG TUO NEW ENERGY TECHNOLOGY (CHINA)

### 10.4.3 RESONAC HOLDINGS CORPORATION (JAPAN)

### 10.4.4 POSCO FUTURE M (SOUTH KOREA)

### 10.4.5 MITSUBISHI CHEMICAL GROUP CORPORATION (JAPAN)

### 10.4.6 SGL CARBON (GERMANY)

## 10.5 RANKING OF KEY MARKET PLAYERS, 2022

### FIGURE 36 RANKING OF TOP FIVE PLAYERS IN LITHIUM-ION BATTERY ANODE MARKET, 2022

## 10.6 BRAND/PRODUCT COMPARISON

### FIGURE 37 BRAND/PRODUCT COMPARISON

### 10.6.1 ANODE MATERIALS BY NINGBO SHANSHAN CO., LTD.

### 10.6.2 ANODE ACTIVE MATERIALS BY POSCO FUTURE M

### 10.6.3 ANODE MATERIALS BY MITSUBISHI CHEMICAL GROUP CORPORATION

### 10.6.4 SIGRACELL

### 10.6.5 HF-FREE

## 10.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2022

### 10.7.1 STARS

### 10.7.2 EMERGING LEADERS

### 10.7.3 PERVASIVE PLAYERS

### 10.7.4 PARTICIPANTS

### FIGURE 38 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2022

### 10.7.5 OVERALL COMPANY FOOTPRINT

### FIGURE 39 OVERALL COMPANY FOOTPRINT (10 COMPANIES)

### TABLE 181 REGION: COMPANY FOOTPRINT (10 COMPANIES)

### TABLE 182 MATERIAL: COMPANY FOOTPRINT (10 COMPANIES)

### TABLE 183 END USE: COMPANY FOOTPRINT (10 COMPANIES)

### TABLE 184 BATTERY PRODUCT: COMPANY FOOTPRINT (10 COMPANIES)

## 10.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2022

### 10.8.1 PROGRESSIVE COMPANIES

### 10.8.2 RESPONSIVE COMPANIES

### 10.8.3 DYNAMIC COMPANIES

#### 10.8.4 STARTING BLOCKS

FIGURE 40 LITHIUM-ION BATTERY ANODE MARKET: STARTUP/SME  
EVALUATION MATRIX, 2022

#### 10.8.5 COMPETITIVE BENCHMARKING

TABLE 185 LITHIUM-ION BATTERY ANODE MARKET: DETAILED LIST OF KEY  
STARTUPS/SMES

TABLE 186 LITHIUM-ION BATTERY ANODE MARKET: COMPETITIVE  
BENCHMARKING OF KEY STARTUPS/SMES

#### 10.9 COMPETITIVE SCENARIO AND TRENDS

##### 10.9.1 DEALS

TABLE 187 LITHIUM-ION BATTERY ANODE MARKET: DEALS, 2019–2024

##### 10.9.2 EXPANSIONS

TABLE 188 LITHIUM-ION BATTERY ANODE MARKET: EXPANSIONS, 2019–2024

#### 10.10 COMPANY VALUATION AND FINANCIAL METRICS, 2022

##### 10.10.1 COMPANY VALUATION

FIGURE 41 COMPANY VALUATION

##### 10.10.2 FINANCIAL METRICS

FIGURE 42 FINANCIAL METRICS

FIGURE 43 YEAR TO DATE (YTD) PRICE TOTAL RETURN AND FIVE-YEAR STOCK  
BETA OF KEY MANUFACTURERS

## 11 COMPANY PROFILES

(Business overview, Products/Services/Solutions offered, Recent Developments, MNM  
view)\*

### 11.1 KEY COMPANIES

#### 11.1.1 RESONAC HOLDINGS CORPORATION

TABLE 189 RESONAC HOLDINGS CORPORATION: COMPANY OVERVIEW

FIGURE 44 RESONAC HOLDINGS CORPORATION: COMPANY SNAPSHOT

TABLE 190 RESONAC HOLDINGS CORPORATION:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 191 RESONAC HOLDINGS CORPORATION: DEALS

#### 11.1.2 JFE CHEMICAL CORPORATION

TABLE 192 JFE CHEMICAL CORPORATION: COMPANY OVERVIEW

TABLE 193 JFE CHEMICAL CORPORATION: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

TABLE 194 JFE CHEMICAL CORPORATION: DEALS

#### 11.1.3 KUREHA CORPORATION

TABLE 195 KUREHA CORPORATION: COMPANY OVERVIEW

FIGURE 45 KUREHA CORPORATION: COMPANY SNAPSHOT

TABLE 196 KUREHA CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

#### 11.1.4 SGL CARBON

TABLE 197 SGL CARBON: COMPANY OVERVIEW

FIGURE 46 SGL CARBON: COMPANY SNAPSHOT

TABLE 198 SGL CARBON: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 199 SGL CARBON: DEALS

TABLE 200 SGL CARBON: OTHER DEVELOPMENTS

TABLE 201 SGL CARBON: EXPANSIONS

#### 11.1.5 NINGBO SHANSHAN CO., LTD.

TABLE 202 NINGBO SHANSHAN CO., LTD.: COMPANY OVERVIEW

FIGURE 47 NINGBO SHANSHAN CO., LTD.: COMPANY SNAPSHOT

TABLE 203 NINGBO SHANSHAN CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 204 NINGBO SHANSHAN CO., LTD.: DEALS

TABLE 205 NINGBO SHANSHAN CO., LTD.: EXPANSIONS

#### 11.1.6 POSCO FUTURE M

TABLE 206 POSCO FUTURE M: COMPANY OVERVIEW

FIGURE 48 POSCO FUTURE M: COMPANY SNAPSHOT

TABLE 207 POSCO FUTURE M: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 208 POSCO FUTURE M: DEALS

TABLE 209 POSCO FUTURE M: CONTRACTS

TABLE 210 POSCO FUTURE M: EXPANSIONS

#### 11.1.7 NIPPON CARBON CO., LTD.

TABLE 211 NIPPON CARBON CO., LTD.: COMPANY OVERVIEW

FIGURE 49 NIPPON CARBON CO., LTD.: COMPANY SNAPSHOT

TABLE 212 NIPPON CARBON CO LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

#### 11.1.8 NEI CORPORATION

TABLE 213 NEI CORPORATION: COMPANY OVERVIEW

TABLE 214 NEI CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 215 NEI CORPORATION: CONTRACTS

#### 11.1.9 JIANGXI ZHENG TUO NEW ENERGY TECHNOLOGY

TABLE 216 JIANGXI ZHENG TUO NEW ENERGY TECHNOLOGY: COMPANY OVERVIEW

TABLE 217 JIANGXI ZHENG TUO NEW ENERGY TECHNOLOGY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

#### 11.1.10 SHANGHAI PTL NEW ENERGY TECHNOLOGY CO., LTD.

TABLE 218 SHANGHAI PTL NEW ENERGY TECHNOLOGY CO., LTD.: COMPANY OVERVIEW

FIGURE 50 SHANGHAI PTL NEW ENERGY TECHNOLOGY CO., LTD.: COMPANY SNAPSHOT

TABLE 219 SHANGHAI PTL NEW ENERGY TECHNOLOGY CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.11 MITSUBISHI CHEMICAL GROUP CORPORATION

TABLE 220 MITSUBISHI CHEMICAL GROUP CORPORATION: COMPANY OVERVIEW

FIGURE 51 MITSUBISHI CHEMICAL GROUP CORPORATION: COMPANY SNAPSHOT

TABLE 221 MITSUBISHI CHEMICAL GROUP CORPORATION: PRODUCTS/SOLUTIONS/ SERVICES OFFERED

TABLE 222 MITSUBISHI CHEMICAL GROUP CORPORATION: EXPANSIONS

11.1.12 SHIN-ETSU CHEMICAL CO., LTD.

TABLE 223 SHIN-ETSU CHEMICAL CO., LTD.: COMPANY OVERVIEW

FIGURE 52 SHIN-ETSU CHEMICAL CO., LTD.: COMPANY SNAPSHOT

TABLE 224 SHIN-ETSU CHEMICAL CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.13 HIMADRI SPECIALITY CHEMICAL LTD.

TABLE 225 HIMADRI SPECIALITY CHEMICAL LTD.: COMPANY OVERVIEW

FIGURE 53 HIMADRI SPECIALITY CHEMICAL LTD.: COMPANY SNAPSHOT

TABLE 226 HIMADRI SPECIALITY CHEMICAL LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 227 HIMADRI SPECIALITY CHEMICAL LTD.: DEALS

11.1.14 TOKAI CARBON CO., LTD.

TABLE 228 TOKAI CARBON CO., LTD.: COMPANY OVERVIEW

FIGURE 54 TOKAI CARBON CO., LTD.: COMPANY SNAPSHOT

TABLE 229 TOKAI CARBON CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.15 KURARAY CO., LTD.

TABLE 230 KURARAY CO., LTD.: COMPANY OVERVIEW

FIGURE 55 KURARAY CO., LTD.: COMPANY SNAPSHOT

TABLE 231 KURARAY CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.16 INTERNATIONAL GRAPHITE LTD.

TABLE 232 INTERNATIONAL GRAPHITE LTD.: COMPANY OVERVIEW

FIGURE 56 INTERNATIONAL GRAPHITE LTD.: COMPANY SNAPSHOT

TABLE 233 INTERNATIONAL GRAPHITE LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 234 INTERNATIONAL GRAPHITE LTD.: DEALS

TABLE 235 INTERNATIONAL GRAPHITE LTD.: EXPANSIONS

11.1.17 ECOGRAF

TABLE 236 ECOGRAF: COMPANY OVERVIEW

FIGURE 57 ECOGRAF: COMPANY SNAPSHOT

TABLE 237 ECOGRAF: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 238 ECOGRAF: DEALS

11.1.18 TALGA GROUP

TABLE 239 TALGA GROUP: COMPANY OVERVIEW

FIGURE 58 TALGA GROUP: COMPANY SNAPSHOT

TABLE 240 TALGA GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.19 BTR NEW MATERIALS GROUP CO., LTD.

TABLE 241 BTR NEW MATERIALS GROUP CO., LTD.: COMPANY OVERVIEW

TABLE 242 BTR NEW MATERIALS GROUP CO., LTD.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.20 GUANGDONG KAIJIN NEW ENERGY TECHNOLOGY CO., LTD.

TABLE 243 GUANGDONG KAIJIN NEW ENERGY TECHNOLOGY CO., LTD.:  
COMPANY OVERVIEW

TABLE 244 GUANGDONG KAIJIN NEW ENERGY TECHNOLOGY CO., LTD.:  
PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.21 AEKYUNG CHEMICAL CO., LTD.

TABLE 245 AEKYUNG CHEMICAL CO., LTD.: COMPANY OVERVIEW

FIGURE 59 AEKYUNG CHEMICAL CO., LTD.: COMPANY SNAPSHOT

TABLE 246 AEKYUNG CHEMICAL CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

11.1.22 EPSILON

TABLE 247 EPSILON: COMPANY OVERVIEW

TABLE 248 EPSILON: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 249 EPSILON: EXPANSIONS

11.2 OTHER PLAYERS

11.2.1 ANOVION LLC

TABLE 250 ANOVION LLC: COMPANY OVERVIEW

11.2.2 AMSTED GRAPHITE MATERIALS

TABLE 251 AMSTED GRAPHITE MATERIALS: COMPANY OVERVIEW

11.2.3 REDWOOD MATERIALS INC.

TABLE 252 REDWOOD MATERIALS INC.: COMPANY OVERVIEW

11.2.4 PRINCETON NUENERGY INC.

TABLE 253 PRINCETON NUENERGY INC.: COMPANY OVERVIEW

11.2.5 ECHION TECHNOLOGIES LIMITED



**TABLE 254 ECHION TECHNOLOGIES LIMITED: COMPANY OVERVIEW**

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

**12 ADJACENT AND RELATED MARKETS**

## 12.1 INTRODUCTION

## 12.2 LIMITATIONS

## 12.3 LITHIUM-ION BATTERY ANODE INTERCONNECTED MARKETS

## 12.4 LITHIUM-ION BATTERY MARKET

## 12.4.1 MARKET DEFINITION

## 12.4.2 MARKET OVERVIEW

## 12.4.3 LITHIUM-ION BATTERY, BY VOLTAGE

## TABLE 255 LITHIUM-ION BATTERY, BY TYPE, 2019–2022 (USD MILLION)

## TABLE 256 LITHIUM-ION BATTERY, BY TYPE, 2023–2032 (USD MILLION)

## 12.4.3.1 Low voltage (Below 12 V)

## 12.4.3.2 Medium voltage (Between 12 V-36 V)

## 12.4.3.3 High voltage (Above 36 V)

**13 APPENDIX**

## 13.1 DISCUSSION GUIDE

## 13.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

## 13.3 CUSTOMIZATION OPTIONS

## 13.4 RELATED REPORTS

## 13.5 AUTHOR DETAILS

## I would like to order

Product name: Lithium-Ion Battery Anode Market by Materials (Active Anode Materials and Anode Binders), Battery Product (Cell and Battery Pack), End-Use (Automotive and Non-Automotive), and Region (Asia Pacific, Europe, and North America) - Global Forecast to 2028

Product link: <https://marketpublishers.com/r/L4A379DD1A36EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/L4A379DD1A36EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970