

Lithium-ion Battery Market by Component (Cathode, Anode, Electrolytic Solution, and Others), End-use Industry [Electrical & Electronics (Smartphones & Tablet/PC, UPS, and Others) and Automotive (Cars, Buses, & Trucks; Scooters & Bikes; and Trains & Aircraft), and Industrial (Cranes & Forklift, Mining Equipment, and Smart Grid & Renewable Energy Storage): Global Opportunity Analysis and Industry Forecast, 2019–2027

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Abstracts

Global lithium-ion battery market was valued \$36.7 billion in 2019, and is projected to reach \$129.3 billion by 2027, at a CAGR of 18.0% from 2020 to 2027. Lithium-ion (Lithium-ion) batteries are rechargeable batteries with high energy density and are majorly used in portable equipment. The market for these batteries is expected to witness a significant growth during the forecast period, owing to their increase in use in smartphones, tablets/PCs, digital cameras, and power tools. Moreover, the demand for Lithium-ion batteries in the automobile industry is expected to increase with rise in demand for electric vehicles.

These batteries have gained popularity among the automobile manufacturers, as they offer an alternative to nickel–metal batteries used in electric vehicles, due to their small size and lightweight. Thus, surge in demand for electrical vehicle (EV), hybrid electric vehicle (HEV), and plug-in hybrid vehicle (PHV) is anticipated to foster the adoption of Lithium-ion batteries, thereby driving the growth of the global market. Furthermore, upsurge in penetration of smartphones, tablet, and other sleeker portable electronic devices is expected to fuel the demand for these batteries. However, longer charging

times of these batteries used in EV/PHV vehicles and their high price are the key factors that restrict the market growth.

On the contrary, increase in energy requirements by consumer gadgets is expected to create numerous growth opportunities for the players operating in the market. With technological advancements, prominent market players are manufacturing various lithium-ion batteries with higher capacity to cater to the increasing demands of battery users. For instance, AES Corporation announced to launch the world's largest lithium-ion battery capable of providing 400 MW of power. This battery is likely to replace batteries of old gas plants, which were used for power generation.

Moreover, Tesla announced to build a battery plant known as GigaFactory in Nevada, U.S., which is expected to start lithium-ion cell production by 2017. This project is anticipated to reduce the price of Lithium-ion batteries owing to mass production.

The global Lithium-ion battery market is segmented into component, end-use industry, and region. On the basis of component, the market is divided into cathode, anode, electrolytic solution, and others (foils, binders, and separators). By end-use industry, it is categorized into electrical & electronics, automotive, industrial, and others (medical, military, and textile).

Region wise, the lithium-ion battery market is analyzed across North America, Europe, Asia-Pacific, and LAMEA. Some of the key players operating in this market include Automotive Energy Supply Corporation, Panasonic Corporation, Samsung SDI Co. Ltd., LG Chem Power (LGCPI), LITEC Co., Ltd., A123 Systems, LLC, Toshiba Corporation, Hitachi Chemical Co., Ltd., China BAK Battery Co. Ltd., and GS Yuasa International Ltd.

Key benefits for stakeholders

The report provides extensive qualitative and quantitative analyses of the current trends and future estimations of the global lithium ion battery market from 2019 to 2027 to determine the prevailing opportunities

Comprehensive analysis of factors that drive and restrict the growth of the market is provided

Estimations and forecast are based on factors impacting the market growth, in terms of both value and volume

Profiles of leading players operating in the global lithium ion battery market has been provided, and this helps can be useful for understanding the competitive scenario globally

The report provides extensive qualitative insights on the significant segments and regions exhibiting favorable market growth

KEY MARKET SEGMENTS

By Component

Cathode

Anode

Electrolytic Solution

Others

By End-Use Industry

Electrical & Electronics

Smartphones, Tablet/PC

UPS

Others

Automotive

Cars, Buses, Trucks

Scooters & Bikes

Trains & Aircrafts

Industrial

Cranes & Forklift

Mining Equipment

Smart Grid & Renewable Energy Storage

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Spain

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Contents

CHAPTER 1:INTRODUCTION

- 1.1.Report description
- 1.2.Key benefits for stakeholders
- 1.3.Key market segments
- 1.4.Research methodology
 - 1.4.1.Secondary research
 - 1.4.2.Primary research
 - 1.4.3.Analyst tools and models

CHAPTER 2:EXECUTIVE SUMMARY

- 2.1.Key findings
 - 2.1.1.Top investment pockets
- 2.2.CXO perspective

CHAPTER 3:MARKET OVERVIEW

- 3.1.Market definition and scope
- 3.3.Key forces shaping global lithium-ion battery market
- 3.4.Impact of government regulations on global lithium-ion battery market
- 3.5.Value chain analysis
- 3.6.Patent analysis
 - 3.6.1.By region (2016–2020)
- 3.1.Case study
- 3.2.Market dynamics
 - 3.2.1.Drivers
 - 3.2.1.1.Surge in demand for smartphones, tablets, and other electronic devices
 - 3.2.1.2.Increase in demand for electrical vehicles/hybrid electric vehicles/plug-in hybrid vehicles (EV/HEV/PHV)
 - 3.2.2.Restrictant
 - 3.2.2.1.High price of lithium-ion batteries
 - 3.2.3.Opportunity
 - 3.2.3.1.Higher energy efficiency requirements in technologically updated consumer gadgets

CHAPTER 4:LITHIUM-ION BATTERY MARKET, BY COMPONENT

Lithium-ion Battery Market by Component (Cathode, Anode, Electrolytic Solution, and Others), End-use Industry...

4.1.Overview

4.1.1.Market size and forecast

4.2.Cathode

4.2.1.Key market trends, growth factors, and opportunities

4.2.2.Market size and forecast, by region

4.2.2.1.Market analysis, by country

4.3.Anode

4.3.1.Key market trends, growth factors, and opportunities

4.3.2.Market size and forecast

4.3.3.Market analysis, by country

4.4.Electrolytic solution

4.4.1.Key market trends, growth factors, and opportunities

4.4.2.Market size and forecast

4.4.3.Market analysis, by country

4.5.Others

4.5.1.Key market trends, growth factors, and opportunities

4.5.2.Market size and forecast

4.5.3.Market analysis, by country

CHAPTER 5:LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY

5.1.Overview

5.1.1.Market size and forecast

5.2.Electrical & electronics

5.2.1.Key market trends, growth factors, and opportunities

5.2.2.Market size and forecast, by region

5.2.3.Smartphones & tablet/PC

5.2.3.1.Key market trends, growth factors, and opportunities

5.2.3.2.Market size and forecast, by region

5.2.4.UPS

5.2.4.1.Key market trends, growth factors, and opportunities

5.2.4.2.Market size and forecast, by region

5.2.5.Others

5.2.5.1.Key market trends, growth factors, and opportunities

5.2.5.2.Market size and forecast, by region

5.2.6.Market analysis, by country

5.3.Automotive

5.3.1.Key market trends, growth factors, and opportunities

- 5.3.2. Market size and forecast, by region
- 5.3.3. Cars, buses, & trucks
 - 5.3.3.1. Key market trends, growth factors, and opportunities
 - 5.3.3.2. Market size and forecast, by region
- 5.3.4. Scooters & bikes
 - 5.3.4.1. Key market trends, growth factors, and opportunities
 - 5.3.4.2. Market size and forecast, by region
- 5.3.5. Trains & aircraft
 - 5.3.5.1. Key market trends, growth factors, and opportunities
 - 5.3.5.2. Market size and forecast, by region
- 5.3.6. Market analysis, by country
- 5.4. Industrial
 - 5.4.1. Key market trends, growth factors, and opportunities
 - 5.4.2. Market size and forecast, by region
 - 5.4.3. Cranes & forklift
 - 5.4.3.1. Key market trends, growth factors, and opportunities
 - 5.4.3.2. Market size and forecast, by region
 - 5.4.4. Mining equipment
 - 5.4.4.1. Key market trends, growth factors, and opportunities
 - 5.4.4.2. Market size and forecast, by region
 - 5.4.5. Smart grid & renewable energy storage
 - 5.4.5.1. Key market trends, growth factors, and opportunities
 - 5.4.5.2. Market size and forecast, by region
 - 5.4.6. Market analysis, by country
- 5.5. Others
 - 5.5.1. Key market trends, growth factors, and opportunities
 - 5.5.2. Market size and forecast, by region
 - 5.5.3. Market analysis, by country

CHAPTER 6: LITHIUM-ION BATTERY MARKET, BY REGION

- 6.1. Overview
 - 6.1.1. Market size and forecast
- 6.2. North America
 - 6.2.1. Key market trends, growth factors, and opportunities
 - 6.2.2. Market size and forecast, by component
 - 6.2.3. Market size and forecast, by end-use industry
 - 6.2.3.1. Market size and forecast, by electrical & electronics
 - 6.2.3.2. Market size and forecast, by automotive

- 6.2.3.3. Market size and forecast, by industrial
- 6.2.4. Market size and forecast, by country
- 6.2.5. U.S.
 - 6.2.5.1. Market size and forecast, by component
 - 6.2.5.2. Market size and forecast, by end-use industry
 - 6.2.5.2.1. Market size and forecast, by electrical & electronics
 - 6.2.5.2.2. Market size and forecast, by automotive
 - 6.2.5.2.3. Market size and forecast, by industrial
- 6.2.6. Canada
 - 6.2.6.1. Market size and forecast, by component
 - 6.2.6.2. Market size and forecast, by end-use industry
 - 6.2.6.2.1. Market size and forecast, by electrical & electronics
 - 6.2.6.2.2. Market size and forecast, by automotive
 - 6.2.6.2.3. Market size and forecast, by industrial
- 6.2.7. Mexico
 - 6.2.7.1. Market size and forecast, by component
 - 6.2.7.2. Market size and forecast, by end-use industry
 - 6.2.7.2.1. Market size and forecast, by electrical & electronics
 - 6.2.7.2.2. Market size and forecast, by automotive
 - 6.2.7.2.3. Market size and forecast, by industrial
- 6.3. Europe
 - 6.3.1. Key market trends, growth factors, and opportunities
 - 6.3.2. Market size and forecast, by component
 - 6.3.3. Market size and forecast, by end-use industry
 - 6.3.3.1. Market size and forecast, by electrical & electronics
 - 6.3.3.2. Market size and forecast, by automotive
 - 6.3.3.3. Market size and forecast, by industrial
 - 6.3.4. Market size and forecast, by country
 - 6.3.5. Germany
 - 6.3.5.1. Market size and forecast, by component
 - 6.3.5.2. Market size and forecast, by end-use industry
 - 6.3.5.2.1. Market size and forecast, by electrical & electronics
 - 6.3.5.2.2. Market size and forecast, by automotive
 - 6.3.5.2.3. Market size and forecast, by industrial
 - 6.3.6. UK
 - 6.3.6.1. Market size and forecast, by component
 - 6.3.6.2. Market size and forecast, by end-use industry
 - 6.3.6.2.1. Market size and forecast, by electrical & electronics
 - 6.3.6.2.2. Market size and forecast, by automotive

- 6.3.6.2.3. Market size and forecast, by industrial
- 6.3.7. France
 - 6.3.7.1. Market size and forecast, by component
 - 6.3.7.2. Market size and forecast, by end-use industry
 - 6.3.7.2.1. Market size and forecast, by electrical & electronics
 - 6.3.7.2.2. Market size and forecast, by automotive
 - 6.3.7.2.3. Market size and forecast, by industrial
- 6.3.8. Spain
 - 6.3.8.1. Market size and forecast, by component
 - 6.3.8.2. Market size and forecast, by end-use industry
 - 6.3.8.2.1. Market size and forecast, by electrical & electronics
 - 6.3.8.2.2. Market size and forecast, by automotive
 - 6.3.8.2.3. Market size and forecast, by industrial
- 6.3.9. Russia
 - 6.3.9.1. Market size and forecast, by component
 - 6.3.9.2. Market size and forecast, by end-use industry
 - 6.3.9.2.1. Market size and forecast, by electrical & electronics
 - 6.3.9.2.2. Market size and forecast, by automotive
 - 6.3.9.2.3. Market size and forecast, by industrial
- 6.3.10. Rest of Europe
 - 6.3.10.1. Market size and forecast, by component
 - 6.3.10.2. Market size and forecast, by end-use industry
 - 6.3.10.2.1. Market size and forecast, by electrical & electronics
 - 6.3.10.2.2. Market size and forecast, by automotive
 - 6.3.10.2.3. Market size and forecast, by industrial
- 6.4. Asia-Pacific
 - 6.4.1. Key market trends, growth factors, and opportunities
 - 6.4.2. Market size and forecast, by component
 - 6.4.3. Market size and forecast, by end-use industry
 - 6.4.3.1. Market size and forecast, by electrical & electronics
 - 6.4.3.2. Market size and forecast, by automotive
 - 6.4.3.3. Market size and forecast, by industrial
 - 6.4.4. Market size and forecast, by country
 - 6.4.5. China
 - 6.4.5.1. Market size and forecast, by component
 - 6.4.5.2. Market size and forecast, by end-use industry
 - 6.4.5.2.1. Market size and forecast, by electrical & electronics
 - 6.4.5.2.2. Market size and forecast, by automotive
 - 6.4.5.2.3. Market size and forecast, by industrial

6.4.6.Japan

6.4.6.1.Market size and forecast, by component

6.4.6.2.Market size and forecast, by end-use industry

6.4.6.2.1.Market size and forecast, by electrical & electronics

6.4.6.2.2.Market size and forecast, by automotive

6.4.6.2.3.Market size and forecast, by industrial

6.4.7.India

6.4.7.1.Market size and forecast, by component

6.4.7.2.Market size and forecast, by end-use industry

6.4.7.2.1.Market size and forecast, by electrical & electronics

6.4.7.2.2.Market size and forecast, by automotive

6.4.7.2.3.Market size and forecast, by industrial

6.4.8.South Korea

6.4.8.1.Market size and forecast, by component

6.4.8.2.Market size and forecast, by end-use industry

6.4.8.2.1.Market size and forecast, by electrical & electronics

6.4.8.2.2.Market size and forecast, by automotive

6.4.8.2.3.Market size and forecast, by industrial

6.4.9.Rest of Asia-Pacific

6.4.9.1.Market size and forecast, by component

6.4.9.2.Market size and forecast, by end-use industry

6.4.9.2.1.Market size and forecast, by electrical & electronics

6.4.9.2.2.Market size and forecast, by automotive

6.4.9.2.3.Market size and forecast, by industrial

6.5.LAMEA

6.5.1.Key market trends, growth factors, and opportunities

6.5.2.Market size and forecast, by component

6.5.3.Market size and forecast, by end-use industry

6.5.3.1.Market size and forecast, by electrical & electronics

6.5.3.2.Market size and forecast, by automotive

6.5.3.3.Market size and forecast, by industrial

6.5.4.Market size and forecast, by country

6.5.5.Brazil

6.5.5.1.Market size and forecast, by component

6.5.5.2.Market size and forecast, by end-use industry

6.5.5.2.1.Market size and forecast, by electrical & electronics

6.5.5.2.2.Market size and forecast, by automotive

6.5.5.2.3.Market size and forecast, by industrial

6.5.6.Saudi Arabia

- 6.5.6.1. Market size and forecast, by component
- 6.5.6.2. Market size and forecast, by end-use industry
 - 6.5.6.2.1. Market size and forecast, by electrical & electronics
 - 6.5.6.2.2. Market size and forecast, by automotive
 - 6.5.6.2.3. Market size and forecast, by industrial
- 6.5.7. South Africa
 - 6.5.7.1. Market size and forecast, by component
 - 6.5.7.2. Market size and forecast, by end-use industry
 - 6.5.7.2.1. Market size and forecast, by electrical & electronics
 - 6.5.7.2.2. Market size and forecast, by automotive
 - 6.5.7.2.3. Market size and forecast, by industrial
- 6.5.8. Rest of LAMEA
 - 6.5.8.1. Market size and forecast, by component
 - 6.5.8.2. Market size and forecast, by end-use industry
 - 6.5.8.2.1. Market size and forecast, by electrical & electronics
 - 6.5.8.2.2. Market size and forecast, by automotive
 - 6.5.8.2.3. Market size and forecast, by industrial

CHAPTER 7:COMPETITIVE LANDSCAPE

- 7.1. INTRODUCTION
 - 7.1.1. MARKET PLAYER POSITIONING, 2018
- 7.2. TOP WINNING STRATEGIES
 - 7.2.1. Top winning strategies, by year
 - 7.2.2. Top winning strategies, by development
 - 7.2.3. Top winning strategies, by company
- 7.3. PRODUCT MAPPING OF TOP 10 PLAYERS
- 7.4. COMPETITIVE HEATMAP
- 7.5. KEY DEVELOPMENTS
 - 7.5.1. New product launches
 - 7.5.2. Expansions
 - 7.5.3. Mergers and acquisition
 - 7.5.4. Agreement
 - 7.5.5. Collaboration
 - 7.5.6. Partnership

CHAPTER 8:COMPANY PROFILES

- 8.1. CBAK ENERGY TECHNOLOGY, INC.

- 8.1.1. Company overview
- 8.1.2. Company snapshot
- 8.1.3. Product portfolio
- 8.1.4. Business performance
- 8.2. GS YUASA INTERNATIONAL LTD.
 - 8.2.1. Company overview
 - 8.2.2. Company snapshot
 - 8.2.3. Operating business segments
 - 8.2.4. Product portfolio
 - 8.2.5. Business performance
 - 8.2.6. Key strategic moves and developments
- 8.3. HITACHI, LTD.
 - 8.3.1. Company overview
 - 8.3.2. Company snapshot
 - 8.3.3. Operating business segments
 - 8.3.4. Product portfolio
 - 8.3.5. Business performance
 - 8.3.6. Key strategic moves and developments
- 8.4. LG CHEM
 - 8.4.1. Company overview
 - 8.4.2. Company snapshot
 - 8.4.3. Operating business segments
 - 8.4.4. Product portfolio
 - 8.4.5. Business performance
 - 8.4.6. Key strategic moves and developments
- 8.5. LITHIUM WERKS BV
 - 8.5.1. Company overview
 - 8.5.2. Company snapshot
 - 8.5.3. Product portfolio
 - 8.5.4. Key strategic moves and developments
- 8.6. PANASONIC CORPORATION
 - 8.6.1. Company overview
 - 8.6.2. Company snapshot
 - 8.6.3. Operating business segments
 - 8.6.4. Product portfolio
 - 8.6.5. Business performance
 - 8.6.6. Key strategic moves and developments
- 8.7. RENAULT GROUP
 - 8.7.1. Company overview

- 8.7.2. Company snapshot
- 8.7.3. Operating business segments
- 8.7.4. Product portfolio
- 8.7.5. Business performance
- 8.8. SAMSUNG SDI CO., LTD.
 - 8.8.1. Company overview
 - 8.8.2. Company snapshot
 - 8.8.3. Operating business segments
 - 8.8.4. Product portfolio
 - 8.8.5. Business performance
 - 8.8.6. Key strategic moves and developments
- 8.9. TOSHIBA CORPORATION
 - 8.9.1. Company overview
 - 8.9.2. Company snapshot
 - 8.9.3. Operating business segments
 - 8.9.4. Product portfolio
 - 8.9.5. Business performance
 - 8.9.6. Key strategic moves and developments
- 8.10. WANXIANG GROUP CORPORATION
 - 8.10.1. Company overview
 - 8.10.2. Company snapshot
 - 8.10.3. Product portfolio
 - 8.10.4. Key strategic moves and developments

List Of Tables

LIST OF TABLES

TABLE 01.CASE STUDY

TABLE 02.GLOBAL LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019–2027 (\$MILLION)

TABLE 03.LITHIUM-ION BATTERY MARKET FOR CATHODE, BY REGION, 2019–2027 (\$MILLION)

TABLE 04.LITHIUM-ION BATTERY MARKET FOR ANODE, BY REGION, 2019–2027 (\$MILLION)

TABLE 05.LITHIUM-ION BATTERY MARKET FOR ELECTROLYTIC SOLUTION, BY REGION, 2019–2027 (\$MILLION)

TABLE 06.LITHIUM-ION BATTERY MARKET FOR OTHER COMPONENTS, BY REGION, 2019–2027 (\$MILLION)

TABLE 07.GLOBAL LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027, US\$MILLION

TABLE 08.GLOBAL LITHIUM-ION BATTERY MARKET FOR ELECTRICAL & ELECTRONICS, BY REGION, 2019–2027 (\$MILLION)

TABLE 09.LITHIUM-ION BATTERY MARKET FOR SMARTPHONES & TABLET/PC, BY REGION, 2019–2027 (\$MILLION)

TABLE 10.LITHIUM-ION BATTERY MARKET FOR UPS, BY REGION, 2019–2027 (\$MILLION)

TABLE 11.LITHIUM-ION BATTERY MARKET FOR OTHER END-USES, BY REGION, 2019–2027 (\$MILLION)

TABLE 12.LITHIUM-ION BATTERY MARKET FOR AUTOMOTIVE, BY REGION, 2019–2027 (\$MILLION)

TABLE 13.GLOBAL LITHIUM-ION BATTERY MARKET FOR CARS, BUSES, TRUCKS, BY REGION, 2019–2027 (\$MILLION)

TABLE 14.LITHIUM-ION BATTERY MARKET FOR SCOOTERS & BIKES, BY REGION, 2019–2027 (\$MILLION)

TABLE 15.LITHIUM-ION BATTERY MARKET FOR TRAINS & AIRCRAFTS, BY REGION, 2019–2027 (\$MILLION)

TABLE 16.LITHIUM-ION BATTERY MARKET FOR INDUSTRIAL, BY REGION, 2019–2027 (\$MILLION)

TABLE 17.LITHIUM-ION BATTERY MARKET FOR CRANES & FORKLIFT, BY REGION, 2019–2027 (\$MILLION)

TABLE 18.LITHIUM-ION BATTERY MARKET FOR MINING EQUIPMENT, BY REGION, 2019–2027 (\$MILLION)

TABLE 19.LITHIUM-ION BATTERY MARKET FOR SMART GRID & RENEWABLE ENERGY STORAGE, BY REGION, 2019–2027 (\$MILLION)

TABLE 20.LITHIUM-ION BATTERY MARKET FOR OTHER END-USE INDUSTRIES, BY REGION, 2019–2027 (\$MILLION)

TABLE 21.GLOBAL LITHIUM-ION BATTERY MARKET BY REGION, 2019-2027 (\$MILLION)

TABLE 22.NORTH AMERICA LITHIUM-ION BATTERY MARKET BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 23.NORTH AMERICA LITHIUM-ION BATTERY MARKET BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 24.NORTH AMERICA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 25.NORTH AMERICA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 26.NORTH AMERICA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 27.NORTH AMERICA LITHIUM-ION BATTERY MARKET, BY COUNTRY, 2019-2027 (\$MILLION)

TABLE 28.U.S. LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 29.U.S. LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 30.U.S. LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 31.U.S. LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 32.U.S. LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 33.CANADA LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 34.CANADA LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 35.CANADA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 36.CANADA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 37.CANADA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 38.MEXICO LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027

(\$MILLION)

TABLE 39.MEXICO LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 40.MEXICO LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 41.MEXICO LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 42.MEXICO LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 43.EUROPE LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 44.EUROPE LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 45.EUROPE LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 46.EUROPE LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 47.EUROPE LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 48.EUROPE LITHIUM-ION BATTERY MARKET, BY COUNTRY, 2019-2027 (\$MILLION)

TABLE 49.GERMANY LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 50.GERMANY LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 51.GERMANY LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 52.GERMANY LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 53.GERMANY LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 54.UK LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 55.UK LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 56.UK LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 57.UK LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 58.UK LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027
(\$MILLION)

TABLE 59.FRANCE LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027
(\$MILLION)

TABLE 60.FRANCE LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY,
2019-2027 (\$MILLION)

TABLE 61.FRANCE LITHIUM-ION BATTERY MARKET, BY ELECTRICAL &
ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 62.FRANCE LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027
(\$MILLION)

TABLE 63.FRANCE LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027
(\$MILLION)

TABLE 64.SPAIN LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027
(\$MILLION)

TABLE 65.SPAIN LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY,
2019-2027 (\$MILLION)

TABLE 66.SPAIN LITHIUM-ION BATTERY MARKET, BY ELECTRICAL &
ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 67.SPAIN LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027
(\$MILLION)

TABLE 68.SPAIN LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027
(\$MILLION)

TABLE 69.RUSSIA LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027
(\$MILLION)

TABLE 70.RUSSIA LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY,
2019-2027 (\$MILLION)

TABLE 71.RUSSIA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL &
ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 72.RUSSIA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027
(\$MILLION)

TABLE 73.RUSSIA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027
(\$MILLION)

TABLE 74.REST OF EUROPE LITHIUM-ION BATTERY MARKET, BY COMPONENT,
2019-2027 (\$MILLION)

TABLE 75.REST OF EUROPE LITHIUM-ION BATTERY MARKET, BY END-USE
INDUSTRY, 2019-2027 (\$MILLION)

TABLE 76.REST OF EUROPE LITHIUM-ION BATTERY MARKET, BY ELECTRICAL &
ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 77.REST OF EUROPE LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE,

2019-2027 (\$MILLION)

TABLE 78.REST OF EUROPE LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 79.ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 80.ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 81.ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 82.ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 83.ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 84.ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY COUNTRY, 2019-2027 (\$MILLION)

TABLE 85.CHINA LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 86.CHINA LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 87.CHINA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 88.CHINA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 89.CHINA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 90.JAPAN LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 91.JAPAN LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 92.JAPAN LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 93.JAPAN LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 94.JAPAN LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 95.INDIA LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 96.INDIA LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 97.INDIA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 98.INDIA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 99.INDIA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 100.SOUTH KOREA LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 101.SOUTH KOREA LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 102.SOUTH KOREA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 103.SOUTH KOREA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 104.SOUTH KOREA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 105.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 106.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 107.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 108.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 109.REST OF ASIA-PACIFIC LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 110.LAMEA LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 111.LAMEA LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 112.LAMEA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 113.LAMEA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 114.LAMEA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 115.LAMEA LITHIUM-ION BATTERY MARKET, BY COUNTRY, 2019-2027 (\$MILLION)

TABLE 116.BRAZIL LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027

(\$MILLION)

TABLE 117.BRAZIL LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 118.BRAZIL LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 119.BRAZIL LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 120.BRAZIL LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 121.SAUDI ARABIA LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 122.SAUDI ARABIA LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 123.SAUDI ARABIA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 124.SAUDI ARABIA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 125.SAUDI ARABIA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 126.SOUTH AFRICA LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 127.SOUTH AFRICA LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 128.SOUTH AFRICA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 129.SOUTH AFRICA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 130.SOUTH AFRICA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 131.REST OF LAMEA LITHIUM-ION BATTERY MARKET, BY COMPONENT, 2019-2027 (\$MILLION)

TABLE 132.REST OF LAMEA LITHIUM-ION BATTERY MARKET, BY END-USE INDUSTRY, 2019-2027 (\$MILLION)

TABLE 133.REST OF LAMEA LITHIUM-ION BATTERY MARKET, BY ELECTRICAL & ELECTRONICS, 2019-2027 (\$MILLION)

TABLE 134.REST OF LAMEA LITHIUM-ION BATTERY MARKET, BY AUTOMOTIVE, 2019-2027 (\$MILLION)

TABLE 135.REST OF LAMEA LITHIUM-ION BATTERY MARKET, BY INDUSTRIAL, 2019-2027 (\$MILLION)

TABLE 136.KEY NEW PRODUCT LAUNCHES (2016-2019)
TABLE 137.KEY EXPANSIONS (2016-2019)
TABLE 138.KEY MERGERS AND ACQUISITION (2016-2019)
TABLE 139.KEY AGREEMENT (2016-2019)
TABLE 140.KEY COLLABORATION (2016-2019)
TABLE 141.KEY PARTNERSHIP (2016-2019)
TABLE 142.CBAK ENERGY: COMPANY SNAPSHOT
TABLE 143.CBAK ENERGY: PRODUCT PORTFOLIO
TABLE 144.OVERALL FINANCIAL STATUS (\$MILLION)
TABLE 145.GS YUASA: COMPANY SNAPSHOT
TABLE 146.GS YUASA: OPERATING SEGMENTS
TABLE 147.GS YUASA: PRODUCT PORTFOLIO
TABLE 148.OVERALL FINANCIAL STATUS (\$MILLION)
TABLE 149.GS YUASA: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 150.HITACHI: COMPANY SNAPSHOT
TABLE 151.HITACHI: OPERATING SEGMENTS
TABLE 152.HITACHI: PRODUCT PORTFOLIO
TABLE 153.OVERALL FINANCIAL STATUS (\$MILLION)
TABLE 154.HITACHI: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 155.LG CHEM: COMPANY SNAPSHOT
TABLE 156.LG CHEM: OPERATING SEGMENTS
TABLE 157.LG CHEM: PRODUCT PORTFOLIO
TABLE 158.OVERALL FINANCIAL STATUS (\$MILLION)
TABLE 159.LITHIUM WERKS: COMPANY SNAPSHOT
TABLE 160.LITHIUM WERKS: PRODUCT PORTFOLIO
TABLE 161.LITHIUM WERKS: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 162.PANASONIC: COMPANY SNAPSHOT
TABLE 163.PANASONIC: OPERATING SEGMENTS
TABLE 164.PANASONIC: PRODUCT PORTFOLIO
TABLE 165.OVERALL FINANCIAL STATUS (\$MILLION)
TABLE 166.PANASONIC: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 167.RENAULT: COMPANY SNAPSHOT
TABLE 168.RENAULT: OPERATING SEGMENTS
TABLE 169.RENAULT: PRODUCT PORTFOLIO
TABLE 170.OVERALL FINANCIAL STATUS (\$MILLION)
TABLE 171.SAMSUNG: COMPANY SNAPSHOT
TABLE 172.SAMSUNG: OPERATING SEGMENTS
TABLE 173.SAMSUNG: PRODUCT PORTFOLIO
TABLE 174.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 175.SAMSUNG: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 176.TOSHIBA: COMPANY SNAPSHOT

TABLE 177.TOSHIBA: OPERATING SEGMENTS

TABLE 178.TOSHIBA: PRODUCT PORTFOLIO

TABLE 179.OVERALL FINANCIAL STATUS (\$MILLION)

TABLE 180.TOSHIBA: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 181.WANXIANG: COMPANY SNAPSHOT

TABLE 182.WANXIANG: PRODUCT PORTFOLIO

TABLE 183.WANXIANG: KEY STRATEGIC MOVES AND DEVELOPMENTS

List Of Figures

LIST OF FIGURES

FIGURE 01.EXECUTIVE SUMMARY

FIGURE 02.TOP INVESTMENT POCKETS, BY COUNTRY

FIGURE 03.GLOBAL LITHIUM-ION BATTERY MARKET SEGMENTATION

FIGURE 04.HIGH BARGAINING POWER OF SUPPLIERS

FIGURE 05.MODERATE BARGAINING POWER OF BUYERS

FIGURE 06.HIGH THREAT OF NEW ENTRANTS

FIGURE 07.MODERATE THREAT OF SUBSTITUTES

FIGURE 08.HIGH INTENSITY OF COMPETITIVE RIVALRY

FIGURE 09.VALUE CHAIN ANALYSIS

FIGURE 10.PATENT ANALYSIS, BY REGION

FIGURE 11.LITHIUM-ION BATTERY MARKET DYNAMICS

FIGURE 12.LITHIUM-ION BATTERY MARKET: GROWTH OF ULTRA-SECURE
SMARTPHONES (MILLIONS), 2016–2025

FIGURE 13.GLOBAL LITHIUM-ION BATTERY MARKET, BY COMPONE

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