

Market Research Report on India Lithium-Ion Battery Market, Growth Rate, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast upto 2027

Author:- NPCS Team

Format: paperback

Code: NI319

Pages: 95

Price: Rs.53100US\$ 1200

Publisher: NIIR PROJECT CONSULTANCY SERVICES

Usually ships within 4 days

Market Research Report on India Lithium-Ion Battery Market, Growth Rate, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast upto 2027

Market By Type (Lithium Cobalt Oxide, Lithium Manganese Oxide, Lithium Iron Phosphate, and Others), By Components (Cathode, Anode, Electrolytic Solution, and Others), By Application (Consumer Electronics, Industrial, and Automotive), and By Region (North India, South India, West India, and East India)

The report titled India Lithium-Ion Battery Market, Growth Rate, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast upto 2027 released by Niir Project Consultancy Services, provides a comprehensive analysis on Indian Lithium Ion Battery Market. The report begins with a brief insight into the scenario of the India Lithium Ion Battery industry giving details about market size, market segmentation, competitive landscape and regional information. The report analyzes the lithium Ion Battery market in profundity by covering data points like industry growth drivers, limitations, opportunity emerging trends coupled with technological landscape of the market and the regulatory framework surrounding the market.

The India Lithium Ion Battery market is expected to drive due to technological advancement coupled with the surge in acceptance of EV across the region

The India Lithium-Ion Battery market projected to reach USD 7 billion at a significant CAGR of over 28% during the forecasted period of 2020-2027 due to the rise in the adoption of electric vehicles across the region. Additionally, the fueling demand for smart devices, coupled with the other consumer products, is one of the primary factors that is projected to drive the Indian lithium-ion batteries market at a significant growth rate. In addition, the strong need for lithium-ion batteries for automotive purposes is anticipated to drive the market. Furthermore, the stringent government controls relevant to CO2 pollution is pushing the lithium-ion battery sector. Moreover, the growing need for eco-friendly energy storage solutions further expected to propel the market for these energy storage solutions. In addition, the declining price of lithium-ion batteries is estimated to provide opportunities for market growth.

Type Overview in the India Lithium Ion Battery Market

Based on the Type, the India Lithium Ion Battery market segregated into by Lithium Cobalt Oxide, Lithium Manganese Oxide, Lithium Iron Phosphate, and Others. The Lithium Cobalt Oxide segment is estimated to have a significant growth rate during the forecasted period of 2020-2027 across the region owing to its extensive uses, including in telecommunications, laptops, video cameras, and wearables. In addition, the primary purpose of the Lithium Iron Phosphate battery is in electric vehicle power batteries.

However, the Lithium Cobalt Oxide type segment is projected to have a lucrative growth rate over the forecasted period by 2027 due to the high energy density of Lithium Cobalt Oxide batteries.

Component Technology Segmental Analysis

Based on the component technology, the Indian Lithium Ion Battery market segregated into Cathode, Anode, Electrolytic Solution, and Others. The cathode component segment is estimated to hold the largest share during the forecasted period of 2020-2027 across the region as the cathode commonly used in lithium-ion battery production. The cathode often used for the development of positive electrodes for the battery cells. Additionally, cathodes have high density and superior power output for lithium-ion batteries, which is predicted to boost the Indian market substantially.

However, the Electrolytic Solution segment is predicted to have a considerable growth rate over the forecasted period by 2027. This is due to the secure, and long-lasting battery needs a durable electrolyte, which can endure current-voltage and elevated temperatures. The electrolyte has a long shelf life, thus providing high lithium-ion durability, which is projected to fuel the Indian market.

Application Segmental Analysis

Based on the application, the Indian Lithium Ion Battery market segregated into Consumer Electronics, Industrial, and Automotive. The automotive application is expected to be the fastest growing in the Indian lithium-ion battery market due to its fast recharge capability, and high energy density as lithium-ion batteries are the only viable technologies that are capable of fulfilling OEM specifications for automotive drive range and charging time. In addition, the growing acceptance and recognition of EVs, legislation promoting the use of EVs, and government initiatives, around the nation are the factors expected to drive the development of the lithium-ion battery industry at a substantial growth rate.

Regional Overview in the India Lithium Ion Battery Market

By geography, the India Lithium Ion Battery market segmented into North India, South India, West India, and East India. South region is projected to lead the market by 2027, owing to the region's propelling consumer electronics industry.

India Lithium Ion Battery Market: Competitive Landscape

Companies such as Exide Industries, Mahindra & Mahindra Limited, ACME Cleantech Solutions Private Limited, Reliance Industries Limited, NEC India Private Limited, Adani Enterprise Ltd, JSW Group, Denso Corp., Samsung SDI Co. Ltd., Rajamane Telectric Pvt. Ltd, Suzuki Motor Corp., Bharat Heavy Electricals Ltd., and other prominent players are the key players in the India Lithium Ion Battery market.

Table of Contents

1 Research Objective	13
2 Research Methodology	17
3 India Lithium-ion Battery Market Overview	22
3.1 India Lithium-ion Battery Market Size & Forecast	22
3.2 India Lithium-ion Battery Market Size & Share Forecast, By Type	25
3.3 India Lithium-ion Battery Market Size & Share Forecast, By Components	27
3.4 India Lithium-ion Battery Market Size & Share Forecast, By Application	29
3.5 India Lithium-ion Battery Market Size & Share Forecast, By Region	31
4 South India Lithium-ion Battery Market Overview	33

4.1 South India Lithium-ion Battery Market Size & Forecast	33
4.2 South India Lithium-ion Battery Market Size & Share Forecast, By Type	34
4.3 South India Lithium-ion Battery Market Size & Share Forecast, By Components	35
4.4 South India Lithium-ion Battery Market Size & Share Forecast, By Application	37
5 North India Lithium-ion Battery Market Overview	39
5.1 North India Lithium-ion Battery Market Size & Forecast	39
5.2 North India Lithium-ion Battery Market Size & Share Forecast, By Type	40
5.3 North India Lithium-ion Battery Market Size & Share Forecast, By Components	41
5.4 North India Lithium-ion Battery Market Size & Share Forecast, By Application	43
6 West India Lithium-ion Battery Market Overview	45
6.1 West India Lithium-ion Battery Market Size & Forecast	45
6.2 West India Lithium-ion Battery Market Size & Share Forecast, By Type	46
6.3 West India Lithium-ion Battery Market Size & Share Forecast, By Components	47
6.4 West India Lithium-ion Battery Market Size & Share Forecast, By Application	49
7 East India Lithium-ion Battery Market Overview	51
7.1 East India Lithium-ion Battery Market Size & Forecast	51
7.2 East India Lithium-ion Battery Market Size & Share Forecast, By Type	52
7.3 East India Lithium-ion Battery Market Size & Share Forecast, By Components	53
7.4 East India Lithium-ion Battery Market Size & Share Forecast, By Application	55
8 Market Dynamics	57
8.1 Drivers	57
8.2 Limitations	61
8.3 Opportunities	62
8.4 Technology Landscape and Innovation	62
8.5 Regulatory Framework	64
8.6 Company Share Analysis	65
8.7 Porter's Five Forces Analysis	67
8.9 PESTEL Analysis	68
9 Competitive Landscape	69
9.1 Company Profiles	69
9.1.1 Hitachi India Pvt. Ltd.	69
9.1.2 AMCO Saft India Limited	71
9.1.3 Heter Electronics Group Co., Ltd.	73
9.1.4 LG Chem Ltd.	75
9.1.5 NEC India Pvt. Ltd.	77
9.1.6 Panasonic Energy India Co. Ltd	79
9.1.7 Rajamane Telectric Pvt. Ltd.	81
9.1.8 Samsung SDI Company Limited	83
9.1.9 Shenzhen B&K Rechargeable Battery, Inc.	85
9.1.10 Sony India Pvt. Ltd.	87
9.1.11 Amperex Technology Limited	89
9.1.12 BYD	91
9.1.13 ACME Cleantech Solutions Pvt. Ltd.	93
9.1.14 Toshiba Corporation	95

List of Figures

FIGURE 1 INDIA LITHIUM-ION BATTERY MARKET SEGMENTATION 14

FIGURE 2 INDIA LITHIUM-ION BATTERY VALUE (\$) AND GROWTH RATE FROM 2016-2027 21

FIGURE 3 INDIA LITHIUM-ION BATTERY MARKET SHARE, BY TYPE 2016-2027 25

FIGURE 4 INDIA LITHIUM-ION BATTERY MARKET SHARE, BY COMPONENTS 2016-2027

27	
FIGURE 5 INDIA LITHIUM-ION BATTERY MARKET SHARE, BY APPLICATION 2016-2027	29
FIGURE 6 INDIA LITHIUM-ION BATTERY MARKET SHARE, BY REGION 2016-2027	31
FIGURE 7 SOUTH INDIA LITHIUM-ION BATTERY VALUE (\$) AND GROWTH RATE FROM 2016-2027	32
FIGURE 8 SOUTH INDIA LITHIUM-ION BATTERY MARKET SHARE, BY TYPE 2016-2027	34
FIGURE 9 SOUTH INDIA LITHIUM-ION BATTERY MARKET SHARE, BY COMPONENTS 2016-2027	35
FIGURE 10 SOUTH INDIA LITHIUM-ION BATTERY MARKET SHARE, BY APPLICATION 2016-2027	37
FIGURE 11 NORTH INDIA LITHIUM-ION BATTERY VALUE (\$) AND GROWTH RATE FROM 2016-2027	38
FIGURE 12 NORTH INDIA LITHIUM-ION BATTERY MARKET SHARE, BY TYPE 2016-2027	40
FIGURE 13 NORTH INDIA LITHIUM-ION BATTERY MARKET SHARE, BY COMPONENTS 2016-2027	41
FIGURE 14 NORTH INDIA LITHIUM-ION BATTERY MARKET SHARE, BY APPLICATION 2016-2027	43
FIGURE 15 WEST INDIA LITHIUM-ION BATTERY VALUE (\$) AND GROWTH RATE FROM 2016-2027	44
FIGURE 16 WEST INDIA LITHIUM-ION BATTERY MARKET SHARE, BY TYPE 2016-2027	46
FIGURE 17 WEST INDIA LITHIUM-ION BATTERY MARKET SHARE, BY COMPONENTS 2016-2027	47
FIGURE 18 WEST INDIA LITHIUM-ION BATTERY MARKET SHARE, BY APPLICATION 2016-2027	49
FIGURE 19 EAST INDIA LITHIUM-ION BATTERY VALUE (\$) AND GROWTH RATE FROM 2016-2027	50
FIGURE 20 EAST INDIA LITHIUM-ION BATTERY MARKET SHARE, BY TYPE 2016-2027	52
FIGURE 21 EAST INDIA LITHIUM-ION BATTERY MARKET SHARE, BY COMPONENTS 2016-2027	53
FIGURE 22 EAST INDIA LITHIUM-ION BATTERY MARKET SHARE, BY APPLICATION 2016-2027	55
FIGURE 23 ELECTRIC FOUR-WHEELER MARKET TREND IN INDIA (IN USD MILLION)	56
FIGURE 24 INDIA CONSUMER ELECTRONICS MARKET TREND, 2017-2020 (USD BILLION)	58
FIGURE 25 INDIA CONSUMER ELECTRONICS MARKET TREND, 2017, 2019, 2022 & 2025 (USD MILLION)	58
FIGURE 26 LITHIUM-ION BATTERY MANUFACTURING PROCESS	62
FIGURE 27 LITHIUM-ION BATTERY MANUFACTURING PROCESS	64

List of Table

TABLE 1 INDIA LITHIUM-ION BATTERY MARKET SIZE, BY TYPE 2016-2027	24
TABLE 2 INDIA LITHIUM-ION BATTERY MARKET SIZE, BY COMPONENTS 2016-2027	26
TABLE 3 INDIA LITHIUM-ION BATTERY MARKET SIZE, BY APPLICATION 2016-2027	28
TABLE 4 INDIA LITHIUM-ION BATTERY MARKET SIZE, BY REGION 2016-2027	30
TABLE 5 SOUTH INDIA LITHIUM-ION BATTERY MARKET SIZE, BY TYPE 2016-2027	33
TABLE 6 SOUTH INDIA LITHIUM-ION BATTERY MARKET SIZE, BY COMPONENTS 2016-2027	34
TABLE 7 SOUTH INDIA LITHIUM-ION BATTERY MARKET SIZE, BY APPLICATION 2016-2027	36
TABLE 8 NORTH INDIA LITHIUM-ION BATTERY MARKET SIZE, BY TYPE 2016-2027	39
TABLE 9 NORTH INDIA LITHIUM-ION BATTERY MARKET SIZE, BY COMPONENTS 2016-2027	40

TABLE 10 NORTH INDIA LITHIUM-ION BATTERY MARKET SIZE, BY APPLICATION 2016-2027	42
TABLE 11 WEST INDIA LITHIUM-ION BATTERY MARKET SIZE, BY TYPE	2016-2027 45
TABLE 12 WEST INDIA LITHIUM-ION BATTERY MARKET SIZE, BY COMPONENTS 2016-2027	46
TABLE 13 WEST INDIA LITHIUM-ION BATTERY MARKET SIZE, BY APPLICATION 2016-2027	48
TABLE 14 EAST INDIA LITHIUM-ION BATTERY MARKET SIZE, BY TYPE	2016-2027 51
TABLE 15 EAST INDIA LITHIUM-ION BATTERY MARKET SIZE, BY COMPONENTS 2016-2027	52
TABLE 16 EAST INDIA LITHIUM-ION BATTERY MARKET SIZE, BY APPLICATION	2016-2027 54
TABLE 17 HITACHI INDIA PVT. LTD. – AT A GLANCE	68
TABLE 18 AMCO SAFT INDIA LIMITED – AT A GLANCE	70
TABLE 19 HETER ELECTRONICS GROUP CO., LTD. – AT A GLANCE	72
TABLE 20 LG CHEM LTD. – AT A GLANCE	74
TABLE 21 NEC INDIA PVT. LTD. – AT A GLANCE	76
TABLE 22 PANASONIC ENERGY INDIA CO. LTD. – AT A GLANCE	78
TABLE 23 RAJAMANE TELECTRIC PVT. LTD. – AT A GLANCE	80
TABLE 24 SAMSUNG SDI COMPANY LIMITED – AT A GLANCE	82
TABLE 25 SHENZHEN B&K RECHARGEABLE BATTERY, INC. – AT A GLANCE	84
TABLE 26 SONY INDIA PVT. LTD. – AT A GLANCE	86
TABLE 27 AMPEREX TECHNOLOGY LIMITED – AT A GLANCE	88
TABLE 28 BYD – AT A GLANCE	90
TABLE 29 ACME CLEANTECH SOLUTIONS PVT. LTD. – AT A GLANCE	92
TABLE 30 TOSHIBA CORPORATION – AT A GLANCE	94

About NIIR

NIIR PROJECT CONSULTANCY SERVICES (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes various process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

NIIR PROJECT CONSULTANCY SERVICES, 106-E, Kamla Nagar, New Delhi-110007, India.
Email: npcs.india@gmail.com **Website:** NIIR.org

Fri, 09 May 2025 05:55:58 +0000