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# India Lithium-ion Battery Market By Type (Lithium cobalt oxide (LCO), Lithium iron phosphate (LFP), Lithium Nickel Cobalt Aluminum Oxide (NCA), Lithium Manganese Oxide (LMO), Lithium Titanate (LTO), Lithium Nickel Manganese Cobalt (LMC)), By Capacity (0-3,000 mAh, 3,000-10,000 mAh, 10,000-60,000 mAh, 60,000 mAh and above), By Vertical (Consumer Electronics, Automotive, Aerospace, Marine, Medical, Industrial, Power, Telecommunications, Others), By Region, Competition, Forecast and Opportunities, 2028

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## Abstracts

India Lithium-ion Battery Market is anticipated to grow at a robust pace during the forecast period, 2024-2028. Lithium-ion batteries are becoming increasingly popular in India due to their high energy density, long cycle life, and low self-discharge rate. They are used in a wide range of applications, including electric vehicles, renewable energy storage systems, portable electronics, and more. Anticipated growth in the market can be attributed to increasing number of solar energy projects, rising urbanization, and government schemes such as, National Electric Mobility Mission Plan (NEMMP) and 'Make in India'. Moreover, an increase in mobile towers in India is driving growth in the telecom sector, which is expected to have a positive impact on India lithium-ion battery market in the coming years.

India has seen a significant growth in the production of lithium-ion batteries in recent years, with several domestic manufacturers entering the market. In addition, the

government of India has implemented several initiatives to promote the production and use of lithium-ion batteries in the country.

Increasing adoption of electric vehicles

Electric vehicles (EVs) are becoming increasingly popular in India, driven by the country's efforts to reduce air pollution and greenhouse gas emissions. The Indian government has set a target of achieving 30% electric vehicle penetration by 2030, which has led to several initiatives to promote the adoption of EVs in the country.

In 2015, the government launched the Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India (FAME India) scheme to provide financial incentives for the adoption of EVs and their associated components, including lithium-ion batteries. Under this scheme, the government has implemented several measures to support the development of EV charging infrastructure across the country.

In addition, several Indian automakers have launched EV models in recent years, including the Tata Nexon EV, Mahindra e-Verito, and the MG ZS EV. These models have gained popularity in the Indian market, and their sales are expected to grow in the coming years.

Furthermore, the Indian government has launched the National Electric Mobility Mission Plan (NEMMP) in 2013, which aims to promote the adoption of electric vehicles and associated infrastructure in the country. The plan includes the deployment of electric buses, two-wheelers, and three-wheelers in various cities across India.

Ola Electric, an Ola Cabs subsidiary, plans to establish a cell manufacturing facility for its lithium-Ion battery by March 2021. This battery will be used in Ola's soon-to-be-released two-wheeler electric vehicles. Additionally, in Pune, the French manufacturer of battery systems Forsee Power began mass-producing lithium-ion batteries for electric two-wheelers (E2W) and electric three-wheelers (E3W) in June 2021. Forsee Power, a French manufacturer of battery systems, began mass-producing lithium-ion batteries for electric two-wheelers (E2W) and electric three-wheelers (E3W) in Pune in June 2021. The battery manufacturing plant has assembly lines, laboratories, and testing capabilities.

As a result of the foregoing, India's plan to increase the adoption of electric vehicles is expected to propel the country's lithium-ion battery market.

Market Segmentation

India Lithium-ion Battery market is segmented based on type, capacity, and vertical. Based on type, the market is segmented into Lithium cobalt oxide (LCO), Lithium iron phosphate (LFP), Lithium Nickel Cobalt Aluminum Oxide (NCA), Lithium Manganese Oxide (LMO), Lithium Titanate (LTO), Lithium Nickel Manganese Cobalt (LMC). Based on capacity, the market is segmented into 0-3,000 mAh, 3,000-10,000 mAh, 10,000-60,000 mAh to 60,000 mAh and above. Based on Vertical, the market is segmented into Consumer Electronics, Automotive, Aerospace, Marine, Medical, Industrial, Power, Telecommunications, Others

Market Players

Major market players in the India Lithium-ion Battery market are Samsung SDI Co. Ltd, Panasonic India Pvt. Ltd, Tata Chemicals Ltd., Bharat Heavy Electricals Limited, Exide Industries, Coslight India Telecom Pvt. Limited, NEC India Private Limited, Amara Raja Batteries Ltd, Rajamane Telectric Pvt., Semyung India Enterprises (Pvt) Ltd.

Overall, there are a lot of activities in the Indian Lithium-ion Battery Market, with several companies investing in R&D and forming partnerships to develop new technologies and products. The Indian government's push towards electric mobility and renewable energy is driving demand for these batteries, which is likely to spur innovation and development in the sector.

Report Scope:

In this report, the India Lithium-ion Battery market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Lithium-ion Battery Market, By Type:

Lithium cobalt oxide (LCO)

Lithium iron phosphate (LFP)

Lithium Nickel Cobalt Aluminum Oxide (NCA)

Lithium Manganese Oxide (LMO)

Lithium Titanate (LTO)

Lithium Nickel Manganese Cobalt (LMC)

India Lithium-ion Battery Market, By Capacity:

0-3,000 mAh

3,000-10,000 mAh

10,000-60,000 mAh

60,000 mAh and above

India Lithium-ion Battery Market, By Vertical:

Consumer Electronics

Automotive

Aerospace

Marine

Medical

Industrial

Power

Telecommunications

Others

India Lithium-ion Battery Market, By Region:

North India

South India

East India

West India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Lithium-ion Battery market.

Available Customizations:

With the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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