

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) LFP Cathode Material Market 2018, Forecast to 2023

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Abstracts

Li-phosphate offers good electrochemical performance with low resistance. This is made possible with nano-scale phosphate cathode material. The key benefits are high current rating and long cycle life, besides good thermal stability, enhanced safety and tolerance if abused.

Li-phosphate is more tolerant to full charge conditions and is less stressed than other lithium-ion systems if kept at high voltage for a prolonged time. As a trade-off, its lower nominal voltage of 3.2V/cell reduces the specific energy below that of cobalt-blended lithium-ion. With most batteries, cold temperature reduces performance and elevated storage temperature shortens the service life, and Li-phosphate is no exception. Li-phosphate has a higher self-discharge than other Li-ion batteries, which can cause balancing issues with aging. This can be mitigated by buying high quality cells and/or using sophisticated control electronics, both of which increase the cost of the pack. Cleanliness in manufacturing is of importance for longevity.

Scope of the Report:

This report focuses on the LFP Cathode Material in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

The development of power battery and energy storage battery markets have affected the demand positively. But due to the original limitation of LFP's energy density, the usage of LFP will probably see the ceiling around 2018-2019 and transfer to a downturn trend. The global LFP capacity is concentrated in Mainland China and Taiwan.

The energy density roadmap of LFP in 2017-mechanical weight loss+ lightweight + LMFP material.

Mechanical weight loss: Lighting technology of auxiliary materials (shell, foil), combined with optimized design of cell space, can improve 5% energy density while insuring the mechanical strength.

The TOP10 LFP material manufactures in China accounts for nearly 85% of the market share, yet it doesn't stop other enterprises stepping into the market. According to incomplete statistics, along with the operation of LFP capacities under construction, the total LFP capacity will reach 250 kilotons in 2018, which will be highly above the demand of around 90 kilotons. LFP batteries will be mainly used in electric buses and gradually turn to energy storage use in the future.

The price of LFP cathode material appears a downturn trend, on the other hand, few of these manufacturers can meet the power battery clients' demand for higher performance lithium iron materials. Currently the energy density of domestic LFP battery system is about 85~100Wh/kg, which is relatively low. Capacity per gram and compact density of most domestic LFP materials are below 135wh/kg and 2.3g/cm³ respectively. The worldwide market for LFP Cathode Material is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2023, from xx million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Guizhou Anda Energy Technology

BTR New Energy Materials

Hunan Shenghua Technology

Pulead Technology Industry

Tianjin STL Energy Technology

Shenzhen Dynanonic

Yantai Zhuoneng Battery Materials

Chongqing Terui Battery Materials

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Nano-LFP Cathode Material

Common-LFP Cathode Material

Market Segment by Applications, can be divided into

Electric Vehicle

Base Station

There are 15 Chapters to deeply display the global LFP Cathode Material market.

Chapter 1, to describe LFP Cathode Material Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of LFP Cathode Material, with sales, revenue, and price of LFP Cathode Material, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of LFP Cathode Material, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share

and growth rate by type, application, from 2013 to 2018;

Chapter 12, LFP Cathode Material market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe LFP Cathode Material sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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