

2018-2023 Global LFP Cathode Material Consumption Market Report

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Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global LFP Cathode Material market for 2018-2023. 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.

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.

Over the next five years, LPI(LP Information) projects that LFP Cathode Material will register a xx% CAGR in terms of revenue, reach US\$ xx million by 2023, from US\$ xx million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of LFP Cathode Material market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Nano-LFP Cathode Material

Common-LFP Cathode Material

Segmentation by application:

Electric Vehicle

Base Station

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

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

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

RESEARCH OBJECTIVES

To study and analyze the global LFP Cathode Material consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of LFP Cathode Material market by identifying its various subsegments.

Focuses on the key global LFP Cathode Material manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the LFP Cathode Material with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of LFP Cathode Material submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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