

# **Global and China Li-ion Power Battery Industry Report , 2017-2020**

**Feb.2017**

## **STUDY GOAL AND OBJECTIVES**

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

## **REPORT OBJECTIVES**

- ◆ To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- ◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- ◆ To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- ◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- ◆ To help company to succeed in a competitive market, and

## **METHODOLOGY**

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications. Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

## **INFORMATION SOURCES**

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.

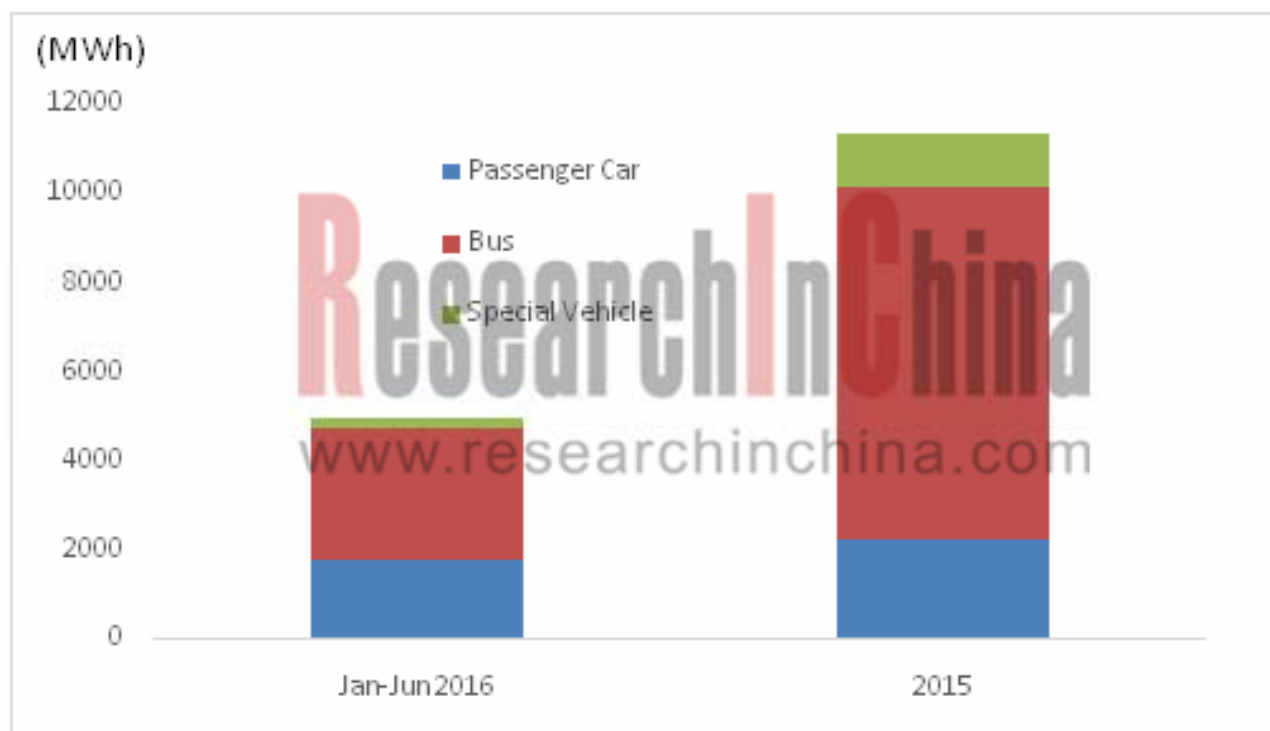
## Abstract

There are three major technology roadmaps for power battery around the world:

- (1) Ternary materials-based: NCA and NCM as main cathode materials. Featuring high energy density, NCM batteries have become a mainstream battery technology for electric vehicles along with a sharp cut in procurement costs of the batteries in recent years. Chinese battery enterprises, represented by Tianjin Lishen and Boston Power, have started the production of NCM batteries since 2014. NCA is chiefly used in 18650-type battery (the highest energy density so far), which supports mainly Tesla and Toyota RAV4. However, due to strong chemical activity of aluminum mixed in NCA, advanced BMS is needed to monitor the operating condition of the battery, thus resulting in a low penetration in carmakers.
- (2) LFP-based. Canada and the United States were the first countries to develop power battery technology. In China, LFP, the mainstream technology for power lithium battery, is widely used in passenger cars and buses, with the typical enterprises including BYD and Guoxuan High-tech. However, due to the factors like low specific energy and poor low-temperature starting performance, LFP batteries still have not been widely used worldwide.
- (3) Manganese series: with LMO as main cathode material. LMO is generally modified and is mixed with a small amount of NCM or LNO to raise battery energy density. Key representative manufacturers are LGC, AESC, LEJ, etc. And in China, they are CITIC Guoan MGL, Do-Fluoride Chemicals, etc.

In the first half of 2016, top enterprises by shipments of power battery included: BYD, Contemporary Amperex Technology Co., Limited (CATL), Guoxuan High-tech, OptimumNano Energy Co., Ltd., Wanxiang, Lishen, Dongguan CHAM Battery Technology, Beijing National Battery Technology, China Aviation Lithium Battery (CALB), Zhuhai Yinlong New Energy Co., Ltd., etc. Ten enterprises shipped a total of 5.37GWh power batteries, making up 80.5%, of which top three ones (BYD, CATL, and Guoxuan High-tech) shipped 3.72GWh power batteries, a combined 55.8% market share.

## Installations of LiFePO<sub>4</sub> Power Battery in China, 2015-2016H1



Specifically, BYD, which produces batteries for its own use, shipped 1.62GWh batteries (almost all LiFePO<sub>4</sub> batteries), half of 2015's total; the second-placed CATL shipped 1.56GWh batteries, primarily LiFePO<sub>4</sub> and ternary batteries, with the former accounting for nearly 80% and mainly used in new energy buses manufactured by Yutong Bus, Zhongtong Bus, Nanjing Golden Dragon, Xiamen King Long, Beiqi Foton Motor, etc., and the latter chiefly in passenger cars produced by Geely, etc. The third-ranking Hefei Guoxuan High-tech shipped 0.55GWh batteries, almost all LiFePO<sub>4</sub> batteries and very few multi-composite batteries which are used in passenger cars, buses, and special vehicles largely produced by JAC Motors, Zotye Auto, Zhongtong Bus, Nanjing Golden Dragon, Higer Bus, SAIC Motor Commercial Vehicle, etc.

Globally, the support from big carmakers is vital to power battery manufacturers. On one hand, traditional consumer electronics enterprises are aggressively conducting transformation; on the other hand, battery materials manufacturers and vehicle manufacturers have also begun to enter this field through various ways. Thus, the first echelon, represented by BYD, Guoxuan High-tech, Tianjin Lishen, and ATL and the second echelon including OptimumNano, Boston Power, Pride Power, Beijing Electronics Holding & SK Technology Co., Ltd (BESK), Do-Fluoride Chemicals, CALB, and Shenzhen BAK have taken shape.

Global and China Li-ion Power Battery Industry Report, 2017-2020 focuses on the following:

- ◆ Li-ion power battery industry chain (four key materials, cell, Pack + BMS, etc.);
- ◆ Li-ion power battery technology roadmap (costs, performance, development direction, etc.);
- ◆ Global and China EV industry (overall, by country, and production & sales and performance parameters of specific auto models, etc.);
- ◆ Global and China li-ion power battery industry (shipments, prices, market size, batteries for auto models and carmakers, etc.);
- ◆ Six Japanese and South Korean lithium battery enterprises (operation, technology, development planning, production & sales, etc.);
- ◆ Ten Chinese li-ion power battery enterprises (operation, technology, development planning, production & sales, etc.)

### 1 Overview of Li-ion Power Battery

- 1.1 Classification of New Energy Vehicles (NEVs)
- 1.2 Classification of Power Batteries
- 1.3 Li-ion Power Battery

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