

Global Lithium-ion (Li-ion) Batteries Market in Hybrid and Electric Vehicles – HEV, PHEV and BEV

The report reviews, analyzes and projects the global market for Lithium-ion (Li-ion) Batteries in Hybrid and Electric Vehicles including Battery Electric Vehicles (BEV), Hybrid Electric Vehicles (HEV) and Plug-in Hybrid Electric Vehicles (PHEV) for the period 2011-2020

Published: June 2015

Report Code: EN004

Pages: 313

Charts: 224

Price: \$4680 Single User License, \$7380 Enterprise License

SUMMARY

Worldwide, the shipments of lithium-ion powered hybrid and electric vehicles stood at 792.8 thousand units in 2014 and maintaining a robust CAGR of 36.9% between 2014 and 2020, global hybrid and electric vehicle shipments are further projected to reach 5.2 million units by 2020. Consumption of Li-ion cells, standing at 299.3 million in 2014 is further expected to register a CAGR of 33.1% over 2014-2020 and reach a projected 1.7 billion by 2020. Li-ion Battery Capacity is projected to reach 87 GWh by 2020 from 8.3 GWh in 2014, whereas global revenues derived from Li-ion battery sales is anticipated to post a CAGR of 43.1% in reaching a projected US\$36.5 billion by 2020.

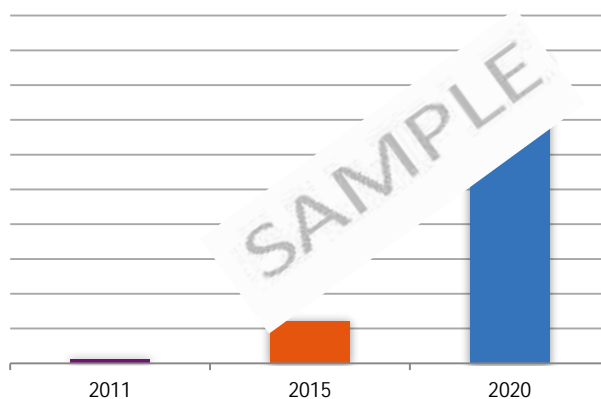
Global market for Lithium-ion Batteries for hybrid and electric vehicle segments explored in this study includes Battery Electric Vehicles (BEVs), Plug-in Hybrid Electric Vehicles (PHEVs) and Hybrid Electric Vehicles (HEVs). Vehicles segments considered for this report includes only passenger cars and light commercial vehicles. The report also includes global and regional hybrid and electric vehicle production trends from 2011 to 2014 and also forecasts for 2014 to 2020. The global lithium-ion battery market for the above mentioned vehicle segments is further analyzed in terms of lithium-ion cell chemistry – Lithium Manganese Oxide (LiMn2O4/LMO), Lithium Iron Phosphate (LiFePO4/LFP), Lithium Nickel Manganese Cobalt Oxide (LiNiMnCoO2/NMC), Lithium Nickel Cobalt Aluminum Oxide (LiNiCoAlO2/NCA) and Lithium Titanate Oxide (Li4Ti5O12/LTO); and lithium-ion cell construction/type – Cylindrical, Prismatic and Laminate/Pouch Cells. The global markets for the above mentioned segments are analyzed in terms of lithium-ion cells consumption in units, battery capacity in MWh and battery revenue in USD.

The report reviews, analyses and projects the Lithium-ion Battery market for global and the regional markets including North America, Europe and Asia-Pacific. The regional markets further analyzed for 14 independent countries across North America – The United States, Canada and Mexico; Europe – Finland, France, Germany, Italy, Spain, Sweden, the United Kingdom and Turkey; Asia-Pacific –China, Japan and South Korea. Lithium-ion battery industry landscape is explored in this study comprising the

supply chain and major customer listing for key battery manufacturers. The report also provides the cell supplier market shares in terms of cell units and battery capacity by hybrid and electric vehicle type.

This 313 page market research report includes 224 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. The report comprises 16 tables showing battery specifications of hybrid and electric vehicle models in production and their battery suppliers. This report profiles 28 key global manufacturers of lithium-ion cells and batteries for hybrid and electric vehicles across North America – 4; Europe – 5; and Asia-Pacific – 19. Key global manufacturer profiles include their lithium-ion battery offerings for hybrid and electric vehicles. The research also provides the listing of the companies engaged in manufacturing and supply of Lithium-ion cells and batteries for hybrid and electric vehicles. The global list of companies covers addresses, contact numbers and the website addresses of 44 companies.

Global Hybrid & Electric Vehicle Lithium-ion Battery Market Overview (2011-2020) by Battery Capacity in GWh



SAMPLE COMPANY PROFILE

A123 SYSTEMS, LLC

39000 Seven Mile Road, Livonia, MI 48152
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Phone: +1-734-772-0300
Website: www.a123systems.com

Business Overview

Established in 2001, Livonia, Michigan-based A123 Systems, LLC is a 100% subsidiary of Wanxiang America Corporation. A123 Systems is engaged in the development, manufacture and supply of advanced Nanophosphate[®] lithium iron phosphate (LiFePO₄) batteries and energy storage systems for use in transportation, and other commercial and industrial applications. To enable mass production of advanced battery cells and systems, and meet their progressive demand throughout the world, A123 Systems has broadened its manufacturing units in Asia, Europe, and North America. The company's core technologies include Nanophosphate[®] lithium iron phosphate (LiFePO₄) battery technology and next-generation Nanophosphate[®] EXT[™] Lithium-ion battery technology.

Technology	Particulars
Nanophosphate [®] Lithium Iron Phosphate Battery Technology	<ul style="list-style-type: none"> This technology provides high power potential at low state of charge (SOC), higher usable energy, exceptional safety performance (abuse tolerance), and long life at high SOC. Batteries based on this technology possess low capacity loss and impedance growth over time, enabling the systems to cope with end-of-life power and energy needs with a negligible pack oversizing.
Nanophosphate [®] Lithium-ion EXT [™] Battery Technology	<ul style="list-style-type: none"> This technology enhances power potential at low temperature and calendar & cycle life at high temperature, possibly cutting down or wiping out the requirement for expensive thermal management (reducing total cost of ownership (TCO))

A123's Nanophosphate[®] technology based energy storage solutions provide high power, higher useable energy over a broad SOC range, excellent safety performance, extensive life cycle, and elevated efficiency in commercial & off-highway and passenger electric vehicles (EVs), hybrid electric vehicles (HEVs), and plug-in hybrid electric vehicles (PHEVs). A123's commercial vehicle customers include BAE Systems, Daimler, Magna Steyr, Smith electric Vehicles, Tata Motors, and VIA Motors; while passenger vehicle customers encompass Axion, BMW, Delphi, Fisker Automotive, General Motors, McLaren, and Shanghai Automotive (SAIC).

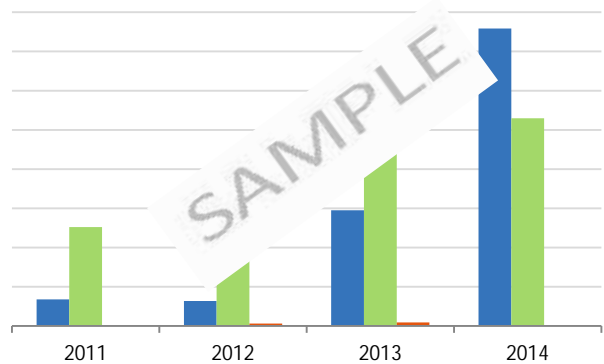
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SAMPLE TABLE/CHART

2014: Leading Lithium-ion Battery Cell Suppliers for Hybrid and Electric Vehicles - Cell Shipments in Thousand Cells



Global Hybrid Electric Vehicle (HEV) Lithium-ion Cell Consumption (2011-2014) by Cell Chemistry - LMO, NMC and LFP in Thousand Cells



KEY PLAYERS PROFILED

- A123 Systems, LLC
- Amperex Technology Limited (ATL)
- Automotive Energy Supply Corporation
- Blue Energy Co., Ltd.
- Blue Solutions SA (Bolloré)
- BYD Company Limited
- China Aviation Lithium Battery Co., Ltd.
- Deutsche Accumotive GmbH & Co. Kg.
- Electrovaya Inc.
- Enerdel, Inc.
- GS Yuasa International Ltd.
- Harbin Coslight Power Co., Ltd.
- Hefei Guoxuan High-Tech Power Energy Co., Ltd.
- Hitachi Vehicle Energy, Ltd.
- Johnson Controls, Inc.
- Johnson Matthey Battery Systems (Formerly Axion)
- LG Chem Ltd.
- Li-Tec Battery GmbH
- Lithium Energy and Power GmbH & Co. Kg

.....[more](#)

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