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

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Abstracts

Growth in demand for Lithium-ion (Li-ion) batteries has encompassed a range of application areas, including consumer electronics, hybrid and electric vehicles and energy storage. While the ubiquity of hybrid vehicles and full-electric vehicles has yet to be manifested on global roads in greater numbers, the process of a marked shift towards more fuel-efficient and eco-friendly means of transport as a switch from conventional gasoline powered vehicles has commenced. The rationale behind introducing environmentally responsible technologies into the automotive value chain can be attributed to a number of factors, including energy security, scarcity of fossil fuels and concerns regarding global warming.

Riding on the back of hybrid and electric vehicles propelling growth, demand for Li-ion batteries is expected to maintain an upward trend over the coming years. Advancements in Li-ion batteries have been given a shot in the arm following a move towards hybrid and electric vehicles, with manufacturers engaged in constant efforts aimed at improving upon existing technology for developing more lightweight and efficient batteries that offer greater travelling distance between charges.

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 if 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.

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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.

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