

Automotive Lead Acid Batteries: Market Research Report

https://marketpublishers.com/r/AC909142989EN.html

Date: January 2019

Pages: 342

Price: US\$ 5,600.00 (Single User License)

ID: AC909142989EN

Abstracts

This report analyzes the worldwide markets for Automotive Lead Acid Batteries in US\$ Million and Thousand Units by the following End-Use Segments: Original Equipment Market (Motorcycles, Passenger Cars, & Commercial Vehicles), and Aftermarket/Replacement Market (Motorcycles, Passenger Cars, & Commercial Vehicles).

The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Latin America and Rest of World. Annual estimates and forecasts are provided for the period 2016 through 2024.

Also, a five-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based on public domain information including company URLs. The report profiles 62 companies including many key and niche players such as -

AC Delco Corporation

ATLASBX Co., Ltd.

Banner Batteries

B.B. Battery

Camel Group Co., Ltd.



Crown Battery



Contents

1. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations
Data Interpretation & Reporting Level
Quantitative Techniques & Analytics
Product Definitions and Scope of Study

2. INDUSTRY OVERVIEW

Lead-Acid Batteries Remain Central to the Automotive Industry

Battery Packs: Vital for Providing the Electrical Juice Required to Keep Automobiles Up and Running

Rechargeable Lead Acid Batteries: The Standard Power Source for Automobiles Innovations in Lead-Acid Batteries: Vital to Compensate for the Dearth of Battery Breakthroughs

Snapshot of Broad Market Forces

Noteworthy Market/Technology Trends & Drivers

Short Life of Lead Acid Batteries & Growing Vehicle PARC Fuels Opportunities for Aftermarket Batteries

Table 1. Rising Motorization Rates Worldwide Expands the Addressable Market Opportunity for Aftermarket Automotive Lead Acid Batteries: Per Capita Distribution of Motor Vehicles Per 1,000 People for Select Countries for the Year 2018 (includes corresponding Graph/Chart)

Table 2. Highlighting Vehicle PARC as a Measure of Growth Potential for Aftermarket Batteries: Global Breakdown of Vehicles-in-Operation (Passenger Cars & Commercial Vehicles) (In 000 Units) by Geographic Region for the Year 2015 & 2018 (includes corresponding Graph/Chart)

Table 3. Rising Average Age of Automobiles Boosts the Frequency of Battery Replacements in the Aftermarket: Average Age of Cars in USA and EU for the Years 2015 & 2020 (includes corresponding Graph/Chart)

Battery Drain Exerted by the Proliferation of In-Car Electronics & Keep Alive Memory



(KAM) Chips Fuel Replacements in the Aftermarket

Table 4. High Electrical Loads Associated with Rapid Electronification of Automobiles Triggers a Steady Stream of Vehicles Heading into the Aftermarket for Replacements Due to Premature Battery Depletion: Automotive Electronics as a Percentage of Vehicle Production Cost for the Years 1970, 1980, 2000, 2017, 2020 and 2030 (includes corresponding Graph/Chart)

Vehicle Production Gains in China to Drive Demand for Lead Acid Batteries in Asia

Table 5. With Over 26 Million Automobiles Rolling off the Assembly Line, Robust Production in China Offers a Fertile Environment for the Growth of Lead Acid Batteries in the OEM Market: Global Top Automotive Manufacturing Countries (Production in 000 Units) for the Years 2015, 2016, 2017 and 2018 (includes corresponding Graph/Chart)

Search for the Ideal Lead-Acid Battery Technology Continues...

Drawbacks of Flooded Lead-Acid Battery Design Drives the Prominence of Valve-Regulated Lead-Acid (VRLA) Batteries

Migration of Automotive Engineering Designs to Smart Start-Stop Engine Systems Opens Up New Opportunities for AGM (VRLA) Batteries

Table 6. Growing Acknowledgment of the Urban-Driving Advantages of Stop-Start Systems Spurs Increased OEM Use of the Technology in the Rapidly Growing Production Micro-Hybrids, a Move Which is Projected to Fuel the Rise of AGM Batteries: Global Sales of Micro-Hybrid Cars/Stop-Start Vehicles (SSVs) (In 000 Units) by Geographic Region for the Years 2015, 2018 & 2020 (includes corresponding Graph/Chart)

Lead Acid Batteries for SLI Functions in Electric Vehicles Dominates, While in High Voltage Applications, Faces Cannibalization Threat from Competing Technologies Bevvy of Innovations to Overcome Drawbacks of Conventional Lead Acid Technology Benefits Growth in the Market

Lead Calcium Battery Gains in Prominence Over Conventional Lead Acid



With Performance Benefits of Super Capacitors, Lead Carbon Battery Carries Strong Potential for Automotive Applications in the Future Ability to Handle High Electrical Loads Drives Commercial Value of Absorbent Glass Mat (AGM) Battery in Modern Connected Cars

Table 7. Incrementally Higher Electrical Loads Exerted by Connected Car Electronics to Drive Focus on AGM as the Battery Technology of Choice: Global Number of Connected Cars Shipped (In 000 Units) for the Years 2017, 2019 and 2022 (includes corresponding Graph/Chart)

Automotive Lightweighting Fuels Interest in Gel Lead Acid Battery

Table 8. Massive Engineering Interest in Lightweighting Creates Interest in Gel Lead Acid Battery Technology: Global Automotive Lightweight Materials Market (In US\$ Billion) for Years 2017, 2020 & 2024 (includes corresponding Graph/Chart)

Research to Develop Lightweight Electrodes Gains Momentum as Emission Norms Get Stricter

Undisputed Economic & Environmental Advantages Including Recycling Sustains the Use of Lead Acid Batteries in Hybrid & Electric Applications

Table 9. An Environmental Success Story as Measured by Recycling Rates, Lead Acid Batteries Flaunt a Strong Environmental Advantage Unrivalled by other Competing Battery Technologies: % Recycling Rates of Lead Acid Batteries in Comparison With Other Materials and Parts for the Year 2018 (includes corresponding Graph/Chart)

Table 10. Energy Consumed by Lead-Acid Batteries (In Mega Joules per Kg) in Comparison With Various Other Automotive Battery Technologies (includes corresponding Graph/Chart)

Table 11. Comparison of CO2 Emissions in Lead Acid Batteries (Per Kg of Battery Weight) In Comparison With Various Other Automotive Battery Technologies (includes corresponding Graph/Chart)



Table 12. Market Growth Benefits from the Growing Focus on Green Cars Against the Backdrop of Lead Acid's Sustained Dominance in SLI Functions in Electric Vehicles: Global Sales of Electric Vehicles by Geographic Region/Country (In 000 Units) for the Years 2015, 2018, 2025, 2030 & 2035 (includes corresponding Graph/Chart)

Market Outlook

3. PRODUCT OVERVIEW

Batteries: A Significant Secondary Source of Energy

Lead Acid Batteries - Definition

A Brief History

The Battery Framework

Kinds of Battery Architecture

How does a Lead Acid Battery Work?

AGM and GEL Technology

Types of Lead Acid Batteries

Flooded Lead Acid Batteries

Sealed Lead Acid Batteries

Applications of Sealed Lead Acid Batteries

Drawbacks

Valve Regulated Lead Acid (VRLA) Batteries

Drawbacks of VRLA Batteries

Pure-Lead Batteries

Categorization of Automotive Lead Acid Batteries Based on Construction and Intended

Use

Automotive Starting

Traction

Reasons Behind Battery Failure

Positive Grid Oxidation

Active Material Cycling Capacity Loss

Separator Deterioration

Water Loss

Factors Controlling Performance of Lead Acid Batteries

Climatic Conditions

Temperature: A Critical Factor

Maintenance of Batteries

Storing



Lead Acid Batteries in the Automotive Sector

Automotive Lead Acid Battery Features

Cold Cranking Rating of Batteries

Cranking Amperes

Reserve Capacity

Components of an Automotive Lead Acid Battery

Active Material

Plates

Grids

Electrolyte

Separators

Cell

Terminals

Container

Cover

Vents

Working of Lead Acid Battery in Gasoline Powered Vehicles

Types of Automotive Lead Acid Batteries

Cranking Batteries

Cycling Batteries

Re-Charging Automotive Lead Acid Batteries

Charging Varies with Battery Types

Trickle Charging

Pulse Charging

Jump Starting

Testing Lead Acid Battery Performance

4. LEAD – THE PRIMARY RAW MATERIAL FOR LEAD ACID BATTERIES

Batteries - Largest End-Use Market for Lead

Worldwide Lead Consumption & Production

Lead Exposures – A Cause For Concern

SLAB Exports Poison Mexican Ecosystem

Lead's Effect on Human System

Survey by the Consumer Product Safety Commission

Lead Toxicity in the Human Nervous System

Correlation Between Lead Exposure & IQ

Sources of Lead Exposure

Airborne



Food & Beverages

Water Distribution System

Lead from Soil and Dust

Occupational Exposures of Lead

Other Sources

Encapsulation – Shield Against Lead Exposures

5. COMPETITIVE LANDSCAPE

5.1 Focus on Select Players

AC Delco Corporation (USA)

ATLASBX Co., Ltd. (South Korea)

Banner Batteries (Austria)

B. B. Battery (China)

Camel Group Co., Ltd. (China)

Crown Battery (USA)

East Penn Manufacturing Company, Inc. (USA)

ENERSYS (USA)

Exide Technologies (USA)

F. I. A. M. M SpA (Italy)

Firefly International Energy Co. (USA)

FIRST NATIONAL BATTERY (South Africa)

Fujian Quanzhou Dahua Battery Co. Ltd. (China)

Furukawa Battery Co. Ltd. (Japan)

GS Yuasa Corporation (Japan)

Hitachi Chemical Energy Technology Co., Ltd (Taiwan)

Johnson Controls, Inc. (USA)

Leoch Battery Corporation (USA)

Lion Batteries Holdings Pty Ltd. (Australia)

Narada Power Source Co., Ltd. (China)

Trojan Battery Company (USA)

Yokohama Batteries (Malaysia)

ZIBO TORCH ENERGY CO., LTD. (China)

5.2 Product Launches

Tydrolyte Introduces New Electrolyte Solution

Exide Launches New Series of Batteries

5.3 Recent Industry Activity



Amara Raja to Launch New Car Battery Plant in the Andhra Pradesh Corridor GS Yuasa Establishes New Company in Myanmar Hitachi Chemical to Acquire 43.9 % Stake in TSB Company Agua Metals Acquires Ebonex Johnson Controls Join Forces with Aqua Metals Johnson Controls Licenses Bipolar Lead-Acid Battery Technology GS Yuasa to Construct a New Automotive Lead-Acid Storage Batteries Plant in China GS Yuasa Battery to Introduce ECO. R ENJ Series of Batteries Hitachi Chemical Launches Next-Generation Lead-Acid Battery Greenvision Unveils Lead-acid Battery for Use in Electric Rickshaws Hitachi Chemicals Inks Strategic Alliance with Alf Technologies Johnson Controls to Invest in AGM Battery Production Johnson Controls to Establish Automotive Battery Facility in China Agua Metals Inks Definitive Agreement with Interstate Batteries GS Yuasa Supplies Lead-Acid Storage Battery to Toyota Motors Johnson Controls to Merge with Tyco

6. GLOBAL MARKET PERSPECTIVE

A. Volume Analytics

Table 13. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 14. World Historic Review for Lead Acid Batteries (Automotive) by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 15. World 14-Year Perspective for Lead Acid Batteries (Automotive) by Geographic Region - Percentage Breakdown of Volume Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)



Lead Acid Batteries (Automotive) Market by End-Use Segment

Table 16. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) for Original Equipment Market by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 17. World Historic Review for Lead Acid Batteries (Automotive) for Original Equipment Market by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 18. World 14-Year Perspective for Lead Acid Batteries (Automotive) for Original Equipment Market by Geographic Region - Percentage Breakdown of Volume Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 19. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) for Original Equipment Market by End-Use Segment - Motorcycles, Passenger Cars and Commercial Vehicles Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 20. World Historic Review for Lead Acid Batteries (Automotive) for Original Equipment Market by End-Use Segment - Motorcycles, Passenger Cars and Commercial Vehicles Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 21. World 14-Year Perspective for Lead Acid Batteries (Automotive) for Original Equipment Market by End-Use Segment - Percentage Breakdown of Volume Sales for Motorcycles, Passenger Cars and Commercial Vehicles Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 22. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) in Aftermarket/Replacement Market by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World



Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 23. World Historic Review for Lead Acid Batteries (Automotive) in Aftermarket/ Replacement Market by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 24. World 14-Year Perspective for Lead Acid Batteries (Automotive) in Aftermarket/ Replacement Market by Geographic Region - Percentage Breakdown of Volume Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 25. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) in Aftermarket/Replacement Market by End-Use Segment - Motorcycles, Passenger Cars and Commercial Vehicles Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 26. World Historic Review for Lead Acid Batteries (Automotive) in Aftermarket/ Replacement Market by End-Use Segment - Motorcycles, Passenger Cars and Commercial Vehicles Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 27. World 14-Year Perspective for Lead Acid Batteries (Automotive) in Aftermarket/ Replacement Market by End-Use Segment - Percentage Breakdown of Volume Sales for Motorcycles, Passenger Cars and Commercial Vehicles Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

B. Value Analytics

Table 28. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes



corresponding Graph/Chart)

Table 29. World Historic Review for Lead Acid Batteries (Automotive) by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 30. World 14-Year Perspective for Lead Acid Batteries (Automotive) by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Lead Acid Batteries (Automotive) Market by End-Use Segment

Table 31. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) for Original Equipment Market by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 32. World Historic Review for Lead Acid Batteries (Automotive) for Original Equipment Market by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 33. World 14-Year Perspective for Lead Acid Batteries (Automotive) for Original Equipment Market by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 34. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) for Original Equipment Market by End-Use Segment - Motorcycles, Passenger Cars and Commercial Vehicles Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)



Table 35. World Historic Review for Lead Acid Batteries (Automotive) for Original Equipment Market by End-Use Segment - Motorcycles, Passenger Cars and Commercial Vehicles Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 36. World 14-Year Perspective for Lead Acid Batteries (Automotive) for Original Equipment Market by End-Use Segment - Percentage Breakdown of Dollar Sales for Motorcycles, Passenger Cars and Commercial Vehicles Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 37. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) in Aftermarket/Replacement Market by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 38. World Historic Review for Lead Acid Batteries (Automotive) in Aftermarket/ Replacement Market by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 39. World 14-Year Perspective for Lead Acid Batteries (Automotive) in Aftermarket/Replacement Market by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Latin America and Rest of World Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 40. World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) in Aftermarket/Replacement Market by End-Use Segment - Motorcycles, Passenger Cars and Commercial Vehicles Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 41. World Historic Review for Lead Acid Batteries (Automotive) in Aftermarket/Replacement Market by End-Use Segment - Motorcycles, Passenger Cars and Commercial Vehicles Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)



Table 42. World 14-Year Perspective for Lead Acid Batteries (Automotive) in Aftermarket/Replacement Market by End-Use Segment - Percentage Breakdown of Dollar Sales for Motorcycles, Passenger Cars and Commercial Vehicles Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7. REGIONAL MARKET PERSPECTIVE

7.1 The United States
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
Market Overview
B. Market Analytics
Volume Analytics

Table 43. The US Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 44. The US Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 45. The US 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics



Table 46. The US Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 47. The US Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 48. The US 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.2 Canada
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 49. Canadian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 50. Canadian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial



Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 51. Canadian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 52. Canadian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 53. Canadian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 54. Canadian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.3 JapanA. Market AnalysisCurrent and Future AnalysisVolume SalesValue Sales



B. Market AnalyticsVolume Analytics

Table 55. Japanese Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 56. Japanese Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 57. Japanese 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 58. Japanese Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 59. Japanese Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)



Table 60. Japanese 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.4 Europe
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 61. European Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by Geographic Region - France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 62. European Historic Review for Lead Acid Batteries (Automotive) by Geographic Region - France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 63. European 14-Year Perspective for Lead Acid Batteries (Automotive) by Geographic Region - Percentage Breakdown of Volume Sales for France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 64. European Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 65. European Historic Review for Lead Acid Batteries (Automotive) by End-Use



Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 66. European 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 67. European Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by Geographic Region - France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 68. European Historic Review for Lead Acid Batteries (Automotive) by Geographic Region - France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 69. European 14-Year Perspective for Lead Acid Batteries (Automotive) by Geographic Region - Percentage Breakdown of Dollar Sales for France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 70. European Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 71. European Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial



Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 72. European 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.4.1 France
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 73. French Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 74. French Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 75. French 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)



Value Analytics

Table 76. French Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 77. French Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 78. French 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.4.2 Germany
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 79. German Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)



Table 80. German Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 81. German 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 82. German Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 83. German Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 84. German 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.4.3 Italy
A. Market Analysis
Current and Future Analysis



Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 85. Italian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 86. Italian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 87. Italian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 88. Italian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 89. Italian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and



Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 90. Italian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.4.4 The United Kingdom
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 91. The UK Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 92. The UK Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 93. The UK 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)



Value Analytics

Table 94. The UK Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 95. The UK Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 96. The UK 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.4.5 Spain
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 97. Spanish Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)



Table 98. Spanish Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 99. Spanish 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 100. Spanish Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 101. Spanish Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 102. Spanish 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.4.6 RussiaA. Market AnalysisCurrent and Future Analysis



Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 103. Russian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 104. Russian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 105. Russian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 106. Russian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 107. Russian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and



Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 108. Russian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.4.7 Rest of Europe
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 109. Rest of European Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 110. Rest of European Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 111. Rest of European 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)



Value Analytics

Table 112. Rest of European Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 113. Rest of European Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 114. Rest of European 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.5 Asia-Pacific
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 115. Asia-Pacific Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by Geographic Region - China, India and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 116. Asia-Pacific Historic Review for Lead Acid Batteries (Automotive) by Geographic Region - China, India and Rest of Asia-Pacific Markets Independently



Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 117. Asia-Pacific 14-Year Perspective for Lead Acid Batteries (Automotive) by Geographic Region - Percentage Breakdown of Volume Sales for China, India and Rest of Asia-Pacific Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 118. Asia-Pacific Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 119. Asia-Pacific Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 120. Asia-Pacific 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 121. Asia-Pacific Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by Geographic Region - China, India and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 122. Asia-Pacific Historic Review for Lead Acid Batteries (Automotive) by Geographic Region - China, India and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015



(includes corresponding Graph/Chart)

Table 123. Asia-Pacific 14-Year Perspective for Lead Acid Batteries (Automotive) by Geographic Region - Percentage Breakdown of Dollar Sales for China, India and Rest of Asia-Pacific Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 124. Asia-Pacific Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 125. Asia-Pacific Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 126. Asia-Pacific 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.5.1 China

A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

China's Rechargeable Lead Acid Battery Industry – Highly Lucrative

Sealed Lead-Acid Batteries an 'In-Thing' for Automobiles

B. Market Analytics

Volume Analytics

Table 127. Chinese Recent Past, Current & Future Analysis for Lead Acid Batteries



(Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 128. Chinese Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 129. Chinese 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 130. Chinese Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 131. Chinese Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 132. Chinese 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial



Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.5.2 India
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 133. Indian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 134. Indian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 135. Indian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 136. Indian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with



Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 137. Indian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 138. Indian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.5.3 Rest of Asia-Pacific
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 139. Rest of Asia-Pacific Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 140. Rest of Asia-Pacific Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 141. Rest of Asia-Pacific 14-Year Perspective for Lead Acid Batteries



(Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 142. Rest of Asia-Pacific Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 143. Rest of Asia-Pacific Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 144. Rest of Asia-Pacific 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.6 Latin America
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 145. Latin American Recent Past, Current & Future Analysis for Lead Acid



Batteries (Automotive) by Geographic Region - Brazil, Mexico and Rest of Latin American Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 146. Latin American Historic Review for Lead Acid Batteries (Automotive) by Geographic Region - Brazil, Mexico and Rest of Latin American Markets Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 147. Latin American 14-Year Perspective for Lead Acid Batteries (Automotive) by Geographic Region - Percentage Breakdown of Volume Sales for Brazil, Mexico and Rest of Latin American Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 148. Latin American Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 149. Latin American Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 150. Latin American 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 151. Latin American Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by Geographic Region - Brazil, Mexico and Rest of Latin



American Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 152. Latin American Historic Review for Lead Acid Batteries (Automotive) by Geographic Region - Brazil, Mexico and Rest of Latin American Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 153. Latin American 14-Year Perspective for Lead Acid Batteries (Automotive) by Geographic Region - Percentage Breakdown of Dollar Sales for Brazil, Mexico and Rest of Latin American Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 154. Latin American Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 155. Latin American Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 156. Latin American 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.6.1 Brazil
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics

Automotive Lead Acid Batteries: Market Research Report



Volume Analytics

Table 157. Brazilian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 158. Brazilian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 159. Brazilian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 160. Brazilian Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 161. Brazilian Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)



Table 162. Brazilian 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.6.2 Mexico
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 163. Mexican Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 164. Mexican Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 165. Mexican 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics



Table 166. Mexican Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 167. Mexican Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 168. Mexican 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.6.3 Rest of Latin America
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales
B. Market Analytics
Volume Analytics

Table 169. Rest of Latin American Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 170. Rest of Latin American Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger



Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 171. Rest of Latin American 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 172. Rest of Latin American Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 173. Rest of Latin American Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 174. Rest of Latin American 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

7.7 Rest of World
A. Market Analysis
Current and Future Analysis
Volume Sales
Value Sales

B. Market Analytics



Volume Analytics

Table 175. Rest of World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/ Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 176. Rest of World Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 177. Rest of World 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Volume Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Value Analytics

Table 178. Rest of World Recent Past, Current & Future Analysis for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 179. Rest of World Historic Review for Lead Acid Batteries (Automotive) by End-Use Segment - Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)



Table 180. Rest of World 14-Year Perspective for Lead Acid Batteries (Automotive) by End-Use Segment - Percentage Breakdown of Dollar Sales for Original Equipment Market (Motorcycles, Passenger Cars and Commercial Vehicles); and Aftermarket/Replacement Market (Motorcycles, Passenger Cars and Commercial Vehicles) for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

8. COMPANY PROFILES

```
Total Companies Profiled: 62 (including Divisions/Subsidiaries - 73)
The United States (15)
Japan (4)
Europe (15)
Germany (1)
The United Kingdom (3)
Italy (5)
Rest of Europe (6)
Asia-Pacific (Excluding Japan) (33)
Middle East (2)
Latin America (1)
Africa (3)
```



I would like to order

Product name: Automotive Lead Acid Batteries: Market Research Report

Product link: https://marketpublishers.com/r/AC909142989EN.html

Price: US\$ 5,600.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/AC909142989EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:		
Last name:		
Email:		
Company:		
Address:		
City:		
Zip code:		
Country:		
Tel:		
Fax:		
Your message:		
	**All fields are required	
	Custumer signature	

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970