

# Lead Acid Batteries (Automotive): Market Research Report

<https://marketpublishers.com/r/L968F4692CCEN.html>

Date: January 2014

Pages: 350

Price: US\$ 4,950.00 (Single User License)

ID: L968F4692CCEN

## Abstracts

This report analyzes the worldwide markets for Lead Acid Batteries (Automotive) 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 2013 through 2020. Also, a seven-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 68 companies including many key and niche players such as -

CSB Battery Co., Ltd.

East Penn Manufacturing Company, Inc.

Exide Technologies

Exide Industries Limited

F.I.A.M.M SpA

## Contents

### I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations

Disclaimers

Data Interpretation & Reporting Level

Quantitative Techniques & Analytics

Product Definitions and Scope of Study

### II. EXECUTIVE SUMMARY

#### 1. MARKET OVERVIEW

Rechargeable Batteries – A Review

Lead Acid Batteries – Still a Dominant Battery Variant for Automobile SLI Application

Factors Influencing Lead Acid Batteries Market

Health of Automotive Industry

Average Life of Vehicles & Battery Replacement Intervals

Seasonal Cycle

Price

Quality

Service

Environmental Regulations and Concern

Innovation

Substitutes

Distribution

Factors Influencing Sale of Lead Acid Batteries (On 1-5 Scale)

Impact of the 2007-2009 Economic Recession on in Retrospect

Economic Recession Hurts Global Automotive Industry Between 2007 & 2009

Implications of the Slowdown in Automotive Industry on the Lead Acid Batteries Market

Market Posts Recovery in 2010

Growth in the Market Once Again Tested in 2012 & 2013

European Debt Crisis Tempers Economic Activity in the Region in 2012 & Early 2013

European Debt Crisis Slows Down Automotive Market - Hurts Sentiments in Automotive Lead Acid Batteries Market in 2012 & Early 2013

**Table 1.** Breakdown of Gross Government Debt as Percentage of GDP for the Year

2012 by Country (includes corresponding Graph/Chart)

**Table 2.** European Automobile Market: Plant Capacity Utilization for the Years 2007, 2010, 2011 & 2012 (includes corresponding Graph/Chart)

Weak Japanese Economy in H2-2013 and Subsequent Decline in Automotive Production Squeezes OEM Orders for Lead Acid Batteries  
Canadian Automotive Industry Declines in 2013 Squeezes Opportunities for OEM Lead Acid Batteries in the Nation  
Automotive Market Remains Weak in Latin America in 2012, Tempers Growth in Automotive Lead Acid Batteries Market in the Region  
Improvement in Global GDP Performance Encourages Optimistic Forecasts for Year 2014 & Beyond

**Table 3.** World Real GDP Growth Rates in % (2012 through 2015F): Breakdown by Country (includes corresponding Graph/Chart)

**Table 4.** World GDP (2013): Percentage Share Breakdown of Nominal GDP Value by Country (includes corresponding Graph/Chart)

**Table 5.** Business Climate Indicator in the Eurozone Area for the Year 2013 & 2014: Breakdown by Month (includes corresponding Graph/Chart)

Outlook

## **2. MARKET TRENDS, GROWTH DRIVERS & ISSUES**

Automotive Aftermarket – The Major Revenue Contributor  
Aftermarket Battery Purchase Behavior  
New Age Cars to Drive Increased Frequency of Replacements

**Table 6.** Worldwide Vehicle Registrations (in Thousands) for Years 2000, 2010 & 2020(P) (includes corresponding Graph/Chart)

**Table 7.** Average Age of Light Vehicles (includes Car & Light Commercial Vehicles) in the United States in the Year 2011 (includes corresponding Graph/Chart)

**Table 8.** Average Age of Cars in Europe (2008, 2010 & 2013): Breakdown of Number of Years (includes corresponding Graph/Chart)

**Table 9.** Average Age of Commercial Vehicles in North America in the Year 2012 (includes corresponding Graph/Chart)

Continued Rise in Vehicle Demand & Subsequent Rise in Production Bodes Well for the OEM Automotive Lead Acid Batteries Market  
Opportunity Indicators

**Table 10.** Global Automotive Market: Breakdown of Units Produced (in '000s) for Passenger Cars and Commercial Vehicles for Years 2013, 2015 & 2018 (includes corresponding Graph/Chart)

**Table 11.** Global Automotive Market: Breakdown of Unit Sales (in '000s) for Passenger Cars and Commercial Vehicles for Years 2013, 2015 & 2018 (includes corresponding Graph/Chart)

**Table 12.** Global Motorcycles Market: Annual Sales Figures in thousand Units for Years 2009, 2013, 2015 & 2018 (includes corresponding Graph/Chart)

**Table 13.** Global Motorcycles Market: Annual Production Volume in Thousand Units for Years 2009, 2013 & 2018 (includes corresponding Graph/Chart)

Continued Craze for ICE Powered Vehicles – A Boon for Lead Acid Batteries

**Table 14.** World Automotive Industry (2013E & 2019P): Percentage Share Breakdown of Unit Sales of Vehicles by Fuel Type (includes corresponding Graph/Chart)

Flooded SLI batteries – Battery Technology of Choice for ICE Vehicle SLI Applications  
New Age Batteries for New Age Vehicles  
Valve-Regulated Lead-Acid Batteries Gains Popularity in Modern Vehicles  
Vehicles with Start-Stop Technology Foster Demand for EFB & AGM Batteries  
Demand for AGM Lead Acid Batteries to Remain Steady in Micro-Hybrid SLI Applications Despite Emerging Competition of Lithium-ion Batteries  
Maintenance-Free Batteries Growing in Demand  
Manufacturers Focus on Producing Advanced Lead Acid Batteries

Lead-Acid Battery Loses Out to Lithium-Ion Batteries in Expanding Pure EV Markets  
Factors Favoring Lithium Ion Batteries for EVs  
Factors Acting Against Use of Lead Acid Batteries for SLI Applications in EV Market  
Low Energy Density and Heavy Weight of Lead Acid Batteries  
Limited Driving Range and Long Recharge Time  
High Replacement Cost  
Unimaginable Demand for Lead  
Lead Pollution to Rise by Lead Acid Batteries Powered EVs  
Lead Acid Battery Manufacturers - Not Giving Up Hope  
Chloride Tackles the Problem of Sensing When to Top up Lead Acid Batteries in EVs  
Low Commercialization of EVs Secures Prospects for Lead Acid Batteries in Short to Medium Term Period  
Future Technology Plays a Decisive Role  
Collaborative Effort Augurs Well for Lead Acid Batteries Market  
Developing Markets to Lend Traction in the Short to Medium Term Period  
Opportunity Indicators

**Table 15.** World Production of Passenger Cars: Breakdown of Production Figures in '000 Units for Years 2013, 2015 & 2017 (includes corresponding Graph/Chart)

**Table 16.** World Production of Commercial Vehicles: Breakdown of Production Figures in '000 Units for Years 2013, 2015 & 2017 (includes corresponding Graph/Chart)

**Table 17.** Global Passenger Cars Market (2013): Breakdown of Number of Cars per 1000 People in Select Countries (includes corresponding Graph/Chart)

Competitive Scenario

**Table 18.** Leading Players in the Global Lead-Acid Automotive Batteries Market (2012): Percentage Market Share Breakdown by Leading Players (includes corresponding Graph/Chart)

### **3. PRODUCT OVERVIEW**

Batteries: A Significant Secondary Source of Energy  
Applications of Batteries  
Consumer Batteries

Automotive Batteries  
High-Performance Rechargeable Batteries  
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 Lead Acid Batteries Based on Construction and Intended Use  
Automotive Starting  
Traction  
Stationary  
Applications of Lead Acid Batteries  
Starting Lighting and Ignition  
Motive Power  
Backup Systems  
Portable Tools and Appliances  
Electronic and Medical Equipment  
Military, Defense and Aerospace Equipment  
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. REVIEW OF ALTERNATIVE BATTERY TECHNOLOGIES**

Nickel-Metal Hydride (NiMH) Batteries  
Nickel-Cadmium (NiCd) Batteries  
Nickel-Iron (Ni-Fe) Batteries  
Lithium Batteries  
Other Lithium Batteries  
Sodium-Sulfur Batteries (Na-S)  
Zinc-Air Batteries  
Aluminum-Air Batteries  
Aluminum-Sulphur Batteries  
Sodium-Nickel-Chloride Batteries  
Power Beat Battery  
Fuel Cells: A Clean Solution for Hybrid EVs  
Gas Power  
Electro Mechanical Storage Devices  
Flywheels  
Ultracapacitors

### **Table 19. Comparative Analysis of Select Batteries**

Atraverda's Bipolar Substrate Solution  
Axion's e3 Supercell Technology

## **6. RECENT INDUSTRY ACTIVITY**

Johnson Controls Takes Over MAC  
Trojan Battery Releases New Proprietary Trojan Formula  
EcoVolt Power Launches New Range of EcoSmart™ SLI batteries  
Johnson Controls Unveils New Range of Powersports Batteries  
Leoch International Technology to Enter into Partnership with PT A  
Shorai and Erik Buell Racing Ink a Pact



## 7. FOCUS ON SELECT PLAYERS

CSB Battery Co. , Ltd. (Taiwan)  
East Penn Manufacturing Company, Inc (US)  
Exide Technologies (US)  
Tudor India Limited (India)  
Exide Industries Limited (India)  
F. I. A. M. M SpA (Italy)  
Fujian Quanzhou Dahua Battery Co. Ltd. (China)  
Furukawa Battery Co. Ltd. (Japan)  
GS Yuasa Corporation (Japan)  
Johnson Controls, Inc. (US)  
Lion Batteries (Wholesale) Pty Ltd (Australia)  
Panasonic Corp. (Japan)

## 8. GLOBAL MARKET PERSPECTIVE

### A. Volume Analytics

**Table 20.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 21.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 22.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

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

**Table 23.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 24.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 25.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 26.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 27.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 28.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 29.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 30.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 31.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 32.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 33.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 34.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## B. Value Analytics

**Table 35.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 36.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 37.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

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

**Table 38.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 39.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 40.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 41.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 42.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 43.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 44.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 45.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 46.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 47.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 48.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 49.** World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

### III. MARKET

#### 1. THE UNITED STATES

##### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

Rechargeable Batteries Continue to Outpace Primary Batteries

US Automotive Market Withstands Fiscal Cliff Concerns – Fosters Steady Growth in Lead Acid Batteries

Lead-Acid Batteries to Remain the Major Source of Battery Demand in Near Future

**Table 50.** US Battery Market (2013): Percentage Breakdown of Demand by Battery Type - Lead- Acid, Alkaline, Rechargeable Lithium, Other Primary, and Other Secondary (includes corresponding Graph/Chart)

Weather and Aging Vehicles Prompt Growth

Environmental Concerns

Safety Measures at Lead Acid Battery Plants

Recycling in Pennsylvania

Strategic Corporate Developments

Product Launches

Select Players

##### B. Market Analytics

Volume Analytics

**Table 51.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 52.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 53.** US 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 54.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 55.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 56.** US 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## **2. CANADA**

### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

Aftermarket Comes to the Rescue of Lead Acid Battery Manufacturers in 2013

### B. Market Analytics

## Volume Analytics

**Table 57.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 58.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 59.** Canadian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## Value Analytics

**Table 60.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 61.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 62.** Canadian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

### 3. JAPAN

#### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

NEDO's RISING Project to Spur Growth in Rechargeable Battery Market

Slowdown in H2-2013 Hurts Demand for OEM Automotive Lead Acid Batteries

Rechargeable Batteries Industry – Manufacturer Perspective

Select Players

#### B. Market Analytics

Volume Analytics

**Table 63.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 64.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 65.** Japanese 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 66.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 67.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 68.** Japanese 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## 4. EUROPE

### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

European Market to Recover After Period of Slowdown During 2011-2013

### B. Market Analytics

Volume Analytics

**Table 69.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 70.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 71.** European 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 72.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 73.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 74.** European 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

#### Value Analytics

**Table 75.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 76.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 77.** European 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 78.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 79.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 80.** European 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## 4A. FRANCE

### A. Market Analysis

#### Current and Future Analysis

#### Volume Sales

#### Value Sales

### B. Market Analytics

#### Volume Analytics

**Table 81.** 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 2013 through 2020 (includes

corresponding Graph/Chart)

**Table 82.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 83.** French 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 84.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 85.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 86.** French 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## **4B. GERMANY**

### **A. Market Analysis**

Current and Future Analysis

Volume Sales

Value Sales

Market Overview

B. Market Analytics

Volume Analytics

**Table 87.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 88.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 89.** German 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 90.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 91.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 92.** German 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

#### **4C. ITALY**

##### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

F. I. A. M. M SPA – A Key Italian Player

##### B. Market Analytics

Volume Analytics

**Table 93.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 94.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 95.** Italian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## Value Analytics

**Table 96.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 97.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 98.** Italian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## 4D. THE UNITED KINGDOM

### A. Market Analysis

#### Current and Future Analysis

##### Volume Sales

##### Value Sales

### B. Market Analytics

#### Volume Analytics

**Table 99.** 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 2013 through 2020 (includes corresponding Graph/Chart)



**Table 100.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 101.** UK 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

#### Value Analytics

**Table 102.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 103.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 104.** UK 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## 4E. SPAIN

### A. Market Analysis

#### Current and Future Analysis

#### Volume Sales

Value Sales

B. Market Analytics

Volume Analytics

**Table 105.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 106.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 107.** Spanish 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 108.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 109.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 110.** Spanish 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

#### **4F. RUSSIA**

##### **A. Market Analysis**

Current and Future Analysis

Volume Sales

Value Sales

##### **B. Market Analytics**

Volume Analytics

**Table 111.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 112.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 113.** Russian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 114.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 115.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 116.** Russian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

#### **4G. REST OF EUROPE**

##### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

##### B. Market Analytics

Volume Analytics

**Table 117.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 118.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 119.** Rest of European 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 120.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 121.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 122.** Rest of European 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## 5. ASIA-PACIFIC

### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

Increasing Vehicle Population – A Major Growth Driver

### B. Market Analytics

Volume Analytics

**Table 123.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 124.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 125.** Asia-Pacific 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 126.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 127.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 128.** Asia-Pacific 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 129.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 130.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 131.** Asia-Pacific 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 132.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 133.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 134.** Asia-Pacific 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## **5A. CHINA**

### **A. Market Analysis**

#### **Current and Future Analysis**

#### **Volume Sales**

## Value Sales

China's Rechargeable Lead Acid Battery Industry – Highly Lucrative

Environmental Concerns Force Lead Acid Battery Factory Shutdowns in 2011 & 2012

Production Scenario Improves with Qualified Manufacturers Increasing their Capacities

China Continues to be Major Market for Lead Acid Batteries

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

## Key Players

B. Market Analytics

Volume Analytics

**Table 135.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 136.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 137.** Chinese 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## Value Analytics

**Table 138.** 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 2013 through 2020 (includes corresponding Graph/Chart)



**Table 139.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 140.** Chinese 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## **5B. INDIA**

### A. Market Analysis

#### Current and Future Analysis

#### Volume Sales

#### Value Sales

#### Automotive Battery Market in India

**Table 141.** Leading Players in Indian Lead-Acid Automotive Batteries OEM Market (2013): Percentage Breakdown for Exide Industries, Amara Raja, and Others (includes corresponding Graph/Chart)

**Table 142.** Leading Players in Indian Lead-Acid Automotive Batteries Replacement Market (2013): Percentage Breakdown for Exide Industries, Amara Raja, and Others (includes corresponding Graph/Chart)

#### Key Players

### B. Market Analytics

#### Volume Analytics

**Table 143.** 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 2013 through 2020 (includes

corresponding Graph/Chart)

**Table 144.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 145.** Indian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 146.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 147.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 148.** Indian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## **5C. REST OF ASIA-PACIFIC**

### **A. Market Analysis**

## Current and Future Analysis

Volume Sales

Value Sales

Strategic Corporate Developments

Key Players

## B. Market Analytics

Volume Analytics

**Table 149.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 150.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 151.** Rest of Asia-Pacific 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 152.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 153.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 154.** Rest of Asia-Pacific 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## 6. LATIN AMERICA

### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

### B. Market Analytics

Volume Analytics

**Table 155.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 156.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 157.** Latin American 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 158.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 159.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 160.** Latin American 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

#### Value Analytics

**Table 161.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 162.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 163.** Latin American 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

**Table 164.** 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 2013 through 2020 (includes

corresponding Graph/Chart)

**Table 165.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 166.** Latin American 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## 6A. BRAZIL

### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

Brazil – The Most Lucrative Regional Market

### B. Market Analytics

Volume Analytics

**Table 167.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 168.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 169.** Brazilian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 170.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 171.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 172.** Brazilian 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## **6B. MEXICO**

A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

B. Market Analytics

Volume Analytics

**Table 173.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 174.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 175.** Mexican 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

#### Value Analytics

**Table 176.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 177.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 178.** Mexican 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)



## 6C. REST OF LATIN AMERICA

### A. Market Analysis

Current and Future Analysis

Volume Sales

Value Sales

### B. Market Analytics

Volume Analytics

**Table 179.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 180.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 181.** Rest of Latin American 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 182.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 183.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 184.** Rest of Latin American 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

## 7. REST OF WORLD

### A. Market Analysis

#### Current and Future Analysis

#### Volume Sales

#### Value Sales

### B. Market Analytics

#### Volume Analytics

**Table 185.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 186.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 187.** Rest of World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Value Analytics

**Table 188.** 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 2013 through 2020 (includes corresponding Graph/Chart)

**Table 189.** 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 2006 through 2012 (includes corresponding Graph/Chart)

**Table 190.** Rest of World 15-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 2006, 2014 & 2020 (includes corresponding Graph/Chart)

#### **IV. COMPETITIVE LANDSCAPE**

Total Companies Profiled: 68 (including Divisions/Subsidiaries - 80)

The United States (12)

Japan (6)

Europe (22)

France (1)

Germany (2)

The United Kingdom (5)

Italy (5)

Spain (1)

Rest of Europe (8)

Asia-Pacific (Excluding Japan) (33)

Latin America (2)

Africa (3)

Middle East (2)

## I would like to order

Product name: Lead Acid Batteries (Automotive): Market Research Report

Product link: <https://marketpublishers.com/r/L968F4692CCEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/L968F4692CCEN.html>