

Battery Projects,

Automobile Batteries, Lead Acid Battery, Lithium Battery, Lithium-Ion (Li-Ion) Battery, Maintenance Free Rechargeable Battery, Battery Recycling, Battery Plate, Battery Separator





Introduction

Battery is device made of electrochemical cells that convert stored chemical energy to electrical energy and electrical energy to chemical energy. Automotive battery is a rechargeable electronic device that supplies electrical energy to automobiles. Traditionally, batteries are used for starting engines, powering cranking motors, interior circuits, external appliances and telematics in automobiles. These batteries are majorly employed in passenger vehicles, electric vehicles, commercial vehicles and among others.



The major application of automotive battery includes automobiles such as cars, two wheelers, and commercial vehicles. There are various types' automotive batteries like lead acid, lithium Ion, nickel cadmium, and others. Basically lead based batteries are used in conventional internal combustion vehicles, start-stop and basic micro hybrid vehicles for the purpose of start, lighting and ignition. Lithium Ion batteries are used in plug in hybrid vehicles and Battery Electric Vehicles (BEV).

The battery which uses sponge lead and lead peroxide for the conversion of the chemical energy into electrical power, such type of battery is called a lead acid battery. The lead acid battery is most commonly used in the power stations and substations because it has higher cell voltage and lower cost.





The global automotive battery market was USD 39.81 billion in 2017 and is estimated to reach USD 65.09 billion by 2023 at a CAGR of 7.28% during the forecasted period.

Factors such as increasing demand for transportation, rapid expansion in the automotive industry, large-scale availability of batteries in various sizes and specifications, stringent government initiatives for electric vehicles and growing consumer preference for pollution-free electric and hybrid vehicles are fuelling the market growth. However, fluctuating raw materials prices of nickel and lead are one of the major factors hampering the market growth.

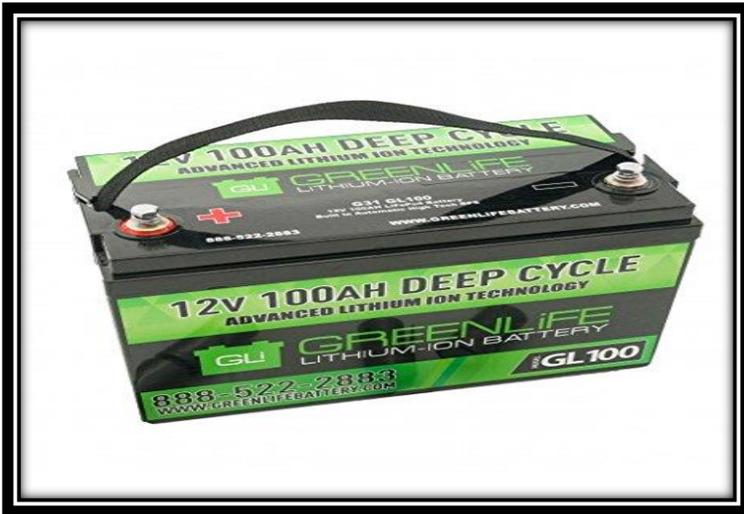


Global Automotive Battery Market

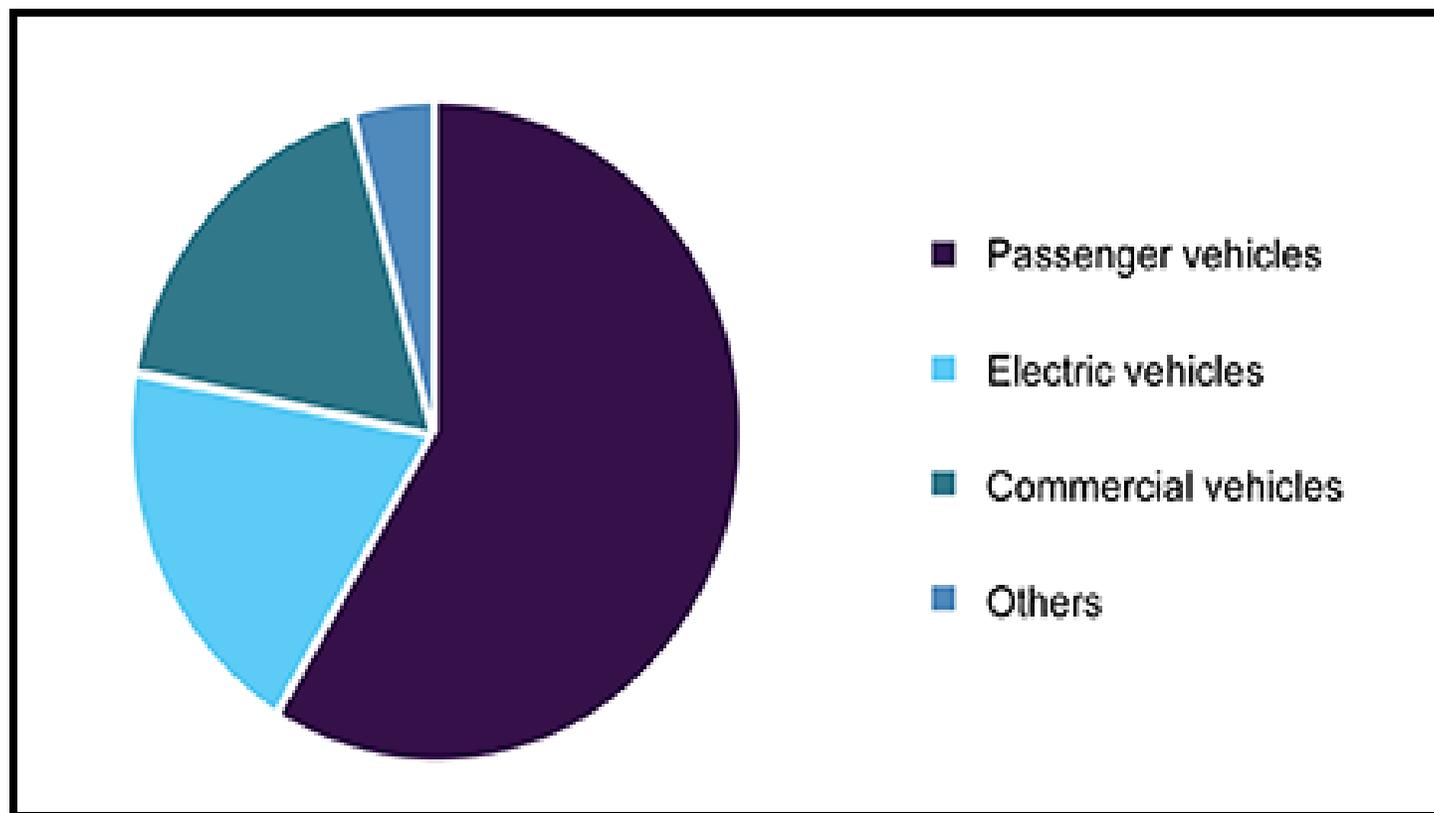




Based on battery types, the market has been classified into lithium-ion based, nickel-based, lead-acid based, sodium-ion, and others. The lead-acid segment has been further classified based on construction type and product. The others segment includes flow batteries and zinc battery.



Automotive Battery Market Revenue, By Vehicle Type, 2016 (%)





This growth of the automotive battery market can be attributed to the increase in demand for automobiles and stringent emission standards set by numerous government agencies. The growth will be further driven by increasing environmental concerns on emissions from traditional automotive batteries and offering of different advantages with the advanced technologies which are used in present batteries. The Market is witnessing increased competition and is expected to further intensify during the forecast period. The players in the market incorporate acquisition, collaboration, partnership and expansion in order to gain competitive advantage in this market and to maintain their market position.





Some of the key players in Global Automotive Battery Market Automotive Energy Supply Corporation, VARTA, Delphi Automotive, China Aviation Lithium, Exide, Amara Raja Batteries, A123 Systems, East Penn Manufacturing Co., Panasonic Corporation, The Furukawa Battery Co., Samsung SD, Fengfan Co. Ltd., Toshiba Corporation, Johnson Controls, Saft Group S.A.



Here are few Projects on Battery:

➤ **Lithium Ion Battery (Battery Assembly)**

Lithium batteries are now powering a wide range of electrical and electronic devices, including laptop computers, mobile phones, power tools, telecommunication systems and new generations of electric cars and vehicles. Lithium ion batteries are those that can be recharged. As an example, laptop or cell phone is likely to have a lithium ion battery. The India lithium-ion battery market is expected to grow at a robust CAGR of 29.26% during the forecast period, 2018-2023. [Read more](#)



➤ Lead Acid Battery

The lead-acid storage battery, an important energy storage device, is the most widely used secondary storage cell by automobile and other industries. Storage cells are devices which release a flow of electron through an external circuit as a result of reactions occurring between the active electrode materials and ions transported by the electrolyte. The cells in which the reactions are reversible are called secondary cells. In these cells the active materials can be returned to their original state by applying electrical current from an external source in the opposite direction to the flow of the cells discharge current. [Read more](#)



➤ Battery for Auto Vehicles

An automotive battery is a rechargeable battery that supplies electrical current to a motor vehicle. Its main purpose is to feed the starter, which starts the engine. Once the engine is running, power for the car's electrical systems is supplied by the alternator. The market demand for these battery is huge as more and more vehicles are being developed daily and more electric vehicles are increasingly being used. As the automotive technology has advanced, automobiles consist of a large number of functions these days. [Read more](#)



➤ **Lithium Battery & E-Waste (Electronic Waste) Recycling Industry**

Lithium Battery & E-Waste (Electronic Waste) Recycling Industry. Battery Recycling as a Business. Electronic Waste Management, Disposal and Recycling E-Waste Electronic waste, or e-waste, is a term for electronic products that have become unwanted, non-working or obsolete, and have essentially reached the end of their useful life. Because technology advances at such a high rate, many electronic devices become “trash” after a few short years of use. In fact, whole categories of old electronic items contribute to e-waste such as VCRs being replaced by DVD players, and DVD players being replaced by Blu-ray players. [Read more](#)



➤ Maintenance Free Rechargeable Battery

Although the lead acid cell was developed by B. Gaston in 1860, it was not until much later when it was adopted by the automobile industry in term of maintenance free rechargeable battery that is gained popularity. The maintenance free rechargeable battery lead acid type can also be floater nickel charged when it is continuously connected to an electrical system. It is widely used in different fields such as for automobiles air crafts, electric locomotives and multiple units, terminal connectors, motor cycles train lighting air conditioning etc. [Read more](#)



➤ Lead Acid Battery Recycling

Lead acid batteries are rechargeable batteries made of lead plates situated in a 'bath' of sulfuric acid within a plastic casing. They are used in every country in world, and can commonly be recognized as car batteries. The batteries can be charged many times, but after numerous cycles of recharging, lead plates eventually deteriorate causing the battery to lose its ability to hold stored energy for any period of time. The world is getting increasingly aware of the need to limit the consumption of nonrenewable resources and the production of waste. [Read more](#)



➤ Plastic Battery Containers

Battery containers made of molded plastic generally have internal partitions formed as integral parts of the bottom and side walls of the container and extending all the way to the top edge of the container to prevent the leakage of liquid between adjacent cells. These containers are usually formed as unitary structures in a single molding operation. The container is the outer part of a lead acid battery which hold down all the components of a lead acid battery together. The container of a lead acid battery is to be resistant to sulfuric acid and should not deform or become porous or contain impurities which might deteriorate the electrolyte. [Read more](#)



➤ PVC Battery Separator

PVC Battery Separators in many different sizes suitable for Lead-Acid Batteries used in all kinds of applications like Automotive Batteries, Train Lighting batteries, Defense Wireless Batteries, Two-wheeler Batteries, Photoflash applications, and batteries for UPS and inverters. Global Battery Separator projected to grow at a CAGR of over 8%, in value terms, during 2018-2023. Growing usage of laptops, cell phones & other wireless electronics, increased investments, introduction of innovative technologies and expanding product portfolio are some factors, which are expected to propel demand for Battery Separator over the next five years. [Read more](#)



➤ **Hard Rubber Battery Container**

Hard Rubber Battery Container is a rigid and strong case or box which contains all the contents and components of a lead-acid battery. A lead-acid battery consists of a container cell plates (positive and negative plates), separators for the cells and sulphuric acid solution and other battery components. The battery container has to be resistant to acid, heat and mechanical vibration. The demand for rubber battery container and car battery depends upon the number of motor vehicles and their annual increase. [Read more](#)



Tags

#Battery_Projects, #Production_of_Battery, Battery Manufacturing Process, Battery Manufacturing, Battery Manufacture, How Battery is Made? How to Start a Battery Manufacturing Business, Battery Manufacturing Process, Battery Manufacturing Process in India, Battery Manufacturing Plant, #Lithium_Ion_Battery_Manufacturing_Plant_Cost_in_India, Battery Manufacture in India, Battery Production, #Battery_Production, Battery Manufacturing Industry, Battery Manufacturing Process, #Cost_of_Setting_up_a_Battery_Manufacturing_Plant, Automobile Batteries, Lead Acid Battery, Lithium Battery, Lithium-Ion (Li-Ion) Battery, #Maintenance_Free_Rechargeable_Battery, Battery Recycling, Battery Plate, Battery Separator, #Automotive_Battery_Production_Factory, Battery Industry, Manufacturing Process of Batteries, Lead-Acid Battery Manufacture, Lead-Acid Battery Production, Lead Acid Battery Manufacturing Plant, Lead Acid Battery Manufacturing Plant Cost, Project Profile on Lead Acid Storage Batteries, What will be the Cost for Starting Lead Battery Manufacturing Unit? Lead Acid Battery Manufacturing Process Pdf, #Lead_Acid_Battery_Manufacturing_Cost, Lead Acid Battery Manufacturing Cost in India, Lead Acid Battery Plant Project Report, How to Make Lead Acid Battery, Manufacture And Assembly of Lead Acid Battery, Start a Battery Manufacturing Plant, Manufacturing of Lead Acid Battery, Lithium-Ion Battery Production, Lithium Battery Manufacturing, Lithium Ion Battery Manufacture in India, Lithium-Ion Batteries Production, Lithium Ion Battery Manufacturing Plant Cost in India, Lithium Ion Battery Manufacturing, Lithium Ion Battery Manufacturing Project Report,



Lithium Ion Battery Manufacturing Equipment Cost, Battery Manufacturing Process Pdf, Lithium Ion Battery Plant In India, Production of Lithium-Ion Battery, Manufacturing of Lithium-Ion Batteries, Lithium-Ion Battery (LIB) Manufacturing Industry, How to Set Up Lithium Ion Battery Plant in India, Battery Recycling as a Business, Lithium-Based Rechargeable Battery Manufacture, Rechargeable Maintenance Free Lead Acid Battery, Rechargeable Battery, How to Recycle Batteries, Battery Recycling Plant, #Detailed_Project_Report_on_Battery_Production, Project Report on Lead-Acid Battery Production, Pre-Investment Feasibility Study on Lithium Ion Battery Manufacturing, Techno-Economic feasibility study on Battery Production, #Feasibility_report_on_Lead_Acid_Battery_Production, Free Project Profile on Battery Production, Project profile on Lithium Ion Battery Manufacturing, Download free project profile on Battery Production, Battery for Auto Vehicles, Lithium Battery & E-Waste (Electronic Waste) Recycling Industry, Plastic Battery Containers, Plastic Battery Containers, Hard Rubber Battery Container



**For more Projects and further details,
visit at:**

<https://bit.ly/2MdRSfY>



Major Queries/Questions Answered in Our Report?

- 1. How has the industry performed so far and how will it perform in the coming years?**
- 2. What is the Project Feasibility of the Plant?**
- 3. What are the requirements of Working Capital for setting up the plant?**
- 4. What is the structure of the industry and who are the key/major players?**

5. **What is the total project cost for setting up the plant?**
6. **What are the operating costs for setting up the plant?**
7. **What are the machinery and equipment requirements for setting up the plant?**
8. **Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?**
9. **What are the requirements of raw material for setting up the plant?**

- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?**
- 11. What is the Manufacturing Process of the plant?**
- 12. What is the total size of land required for setting up the plant?**
- 13. What will be the income and expenditures for the plant?**
- 14. What are the Projected Balance Sheets of the plant?**

- 15. What are the requirement of utilities and overheads for setting up the plant?**
- 16. What is the Built up Area Requirement and cost for setting up the plant?**
- 17. What are the Personnel (Manpower) Requirements for setting up the plant?**
- 18. What are Statistics of Import & Export for the Industry?**
- 19. What is the time required to break-even?**

- 20. What is the Break-Even Analysis of the plant?**
- 21. What are the Project financials of the plant?**
- 22. What are the Profitability Ratios of the plant?**
- 23. What is the Sensitivity Analysis-Price/Volume of the plant?**
- 24. What are the Projected Pay-Back Period and IRR of the plant?**
- 25. What is the Process Flow Sheet Diagram of the plant?**
- 26. What are the Market Opportunities for setting up the plant?**
- 27. What is the Market Study and Assessment for setting up the plant?**
- 28. What is the Plant Layout for setting up the plant?**



NIIR PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Website : www.entrepreneurindia.co , www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



Follow Us



➤ <https://www.linkedin.com/company/niir-project-consultancy-services>



➤ <https://www.facebook.com/NIIR.ORG>



➤ <https://www.youtube.com/user/NIIRproject>



➤ <https://plus.google.com/+EntrepreneurIndiaNewDelhi>



➤ https://twitter.com/npcs_in



➤ <https://www.pinterest.com/npcsindia/>



**Thank
You**

For more information, visit us at:
www.entrepreneurindia.co
www.niir.org

www.entrepreneurindia.co