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info@marketpublishers.com

North America Automotive Lead Acid Battery Market By Battery Type (Flooded, SLI, Absorbent Glass Mat (AGM), Enhanced Flooded Battery (EFB)), By Vehicle Type (Passenger Cars, Light and Heavy Commercial Vehicles), By Country, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

Market Overview

The North America Automotive Lead Acid Battery Market was valued at USD 5.29 billion in 2024 and is projected t%li%reach USD 6.05 billion by 2030, growing at a CAGR of 2.26% during the forecast period. Lead-acid batteries have long served as a dependable and cost-effective energy storage solution in internal combustion engine vehicles, particularly for starting, lighting, and ignition (SLI) systems. Their widespread use continues due t%li%low costs, mature manufacturing infrastructure, and strong recyclability. These batteries are als%li%being deployed in hybrid electric vehicles, where they complement more advanced systems by supporting auxiliary functions. Additionally, growth in electric vehicle charging networks and increased deployment of renewable energy sources, such as solar, is further supporting the demand for lead-acid batteries in automotive energy storage. As automakers and consumers alike seek reliable and affordable battery technologies, lead-acid batteries continue t%li%play a vital role in North America's evolving vehicle ecosystem.

Key Market Drivers

Cost-Effectiveness of Automotive Lead Acid Batteries

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The affordability of lead-acid batteries remains a key driver behind their continued usage in North America's automotive market. These batteries are significantly less expensive than alternatives like lithium-ion, making them appealing for manufacturers and consumers prioritizing cost. Their widespread availability and mature supply chains help ensure consistent production and distribution, while their proven performance in SLI applications adds t%li%their reliability. In segments such as economy and mid-range vehicles, cost remains a decisive factor, and lead-acid batteries provide a practical balance of affordability and effectiveness. This combination of low cost, reliable performance, and established infrastructure continues t%li%underpin strong demand for lead-acid batteries across the region.

Key Market Challenges

Increasing Competition from Alternative Battery Technologies

The North America automotive lead-acid battery market is facing growing pressure from emerging battery technologies, particularly lithium-ion. With electric vehicle adoption accelerating, lithium-ion batteries are becoming the preferred option due t%li%their lighter weight, greater energy density, and longer life cycle. Advances in manufacturing and scaling have driven down costs, allowing lithium-ion batteries t%li%gain wider acceptance even in hybrid configurations. In contrast, lead-acid batteries face limitations in improving their performance metrics, especially in terms of energy density and longevity. As the automotive sector shifts toward electrification and next-generation energy solutions, lead-acid battery manufacturers must contend with growing competition not only from lithium-ion but als%li%from emerging technologies like solid-state batteries, which pose further risks t%li%their market share.

Key Market Trends

Increasing Adoption of Electric Vehicles

The growing adoption of electric vehicles is a defining trend in the North America Automotive Lead Acid Battery Market. While lithium-ion remains the primary technology for EV propulsion, lead-acid batteries are still used for secondary functions and in hybrid electric vehicle platforms. As governments promote low-emission transportation and consumers seek sustainable alternatives, electric and hybrid vehicle sales continue t%li%rise. This shift reinforces the need for dependable auxiliary battery systems, creating a niche but stable demand for lead-acid batteries in supporting roles. Additionally, the role of these batteries in energy backup and storage systems in EV

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infrastructure underscores their continued relevance in a transforming market.

Key Market Players

Johnson Controls International plc

Exide Technologies, LLC

East Penn Manufacturing Co.

EnerSys

GS Yuasa Corporation

Panasonic Holdings Corporation

Crown Battery Manufacturing Company

C&D Technologies, Inc.

Report Scope:

In this report, the North America Automotive Lead Acid Battery Market has been segmented int%li%the following categories, in addition t%li%the industry trends which have als%li%been detailed below:

North America Automotive Lead Acid Battery Market, By Battery Type:

Flooded

SLI

Absorbent Glass Mat (AGM)

Enhanced Flooded Battery (EFB)

North America Automotive Lead Acid Battery Market, By Vehicle Type:

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Passenger Cars

Light and Heavy Commercial Vehicles

North America Automotive Lead Acid Battery Market, By Country:

United States

Canada

Mexico

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North America Automotive Lead Acid Battery Market.

Available Customizations:

North America Automotive Lead Acid Battery Market report with the given market data, Tech Sci Research offers customizations according t%li%a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up t%li%five).

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