France Nickel Metal Hydride Battery For Electric Vehicle Application - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 95 pages | Mordor Intelligence

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Report description:

The France Nickel Metal Hydride Battery Market For Electric Vehicle Application Industry is expected to grow from USD 108.11 million in 2025 to USD 168.34 million by 2030, at a CAGR of 9.26% during the forecast period (2025-2030).

Key Highlights
- Over the medium term, the increased adoption of electric vehicles (EV) and the cost-effective alternative to lithium-ion batteries, especially for hybrid vehicles are expected to drive demand in France's nickel metal hydride battery market for electric vehicle application during the forecast period.
- On the other hand, the NiMH battery market faces stiff competition from lithium-ion batteries, which offer higher energy density and have seen decreasing costs that can significantly restrain the growth of the nickel metal hydride battery market for electric vehicle applications.
- Nevertheless, continued investment in hybrid vehicle technologies presents an opportunity for NiMH batteries to maintain a stronghold in this niche market over the coming years.

France Nickel Metal Hydride Battery Market Trends

Dominance of Lithium-Ion Technology Restrain the Market Growth.

- Li-ion batteries boast a notably higher energy density than their NiMH counterparts. This advantage enables electric vehicles (EVs) to cover greater distances on a single charge, a crucial selling point for automakers and consumers. Given that range,

anxiety poses a significant hurdle to EV adoption. Li-ion batteries' superior energy storage capacity, combined with their lighter weight, enhances their appeal, particularly for fully electric vehicles.

- Li-ion battery costs, once historically high, have significantly dropped over the past decade. This reduction is attributed to advancements in production techniques and the benefits of economies of scale. For instance, Bloomberg NEF reported that the battery prices declined in 2023 to USD 139 /kWh, a decrease of over 13%. The trajectory of technological innovation and manufacturing enhancements is anticipated to decrease the battery pack prices further, projecting the cost to reach USD 113/kWh in 2025 and USD 80/kWh in 2030.
- As a result of this price decline, Li-ion technology has become increasingly competitive. Consequently, the demand for NiMH batteries has diminished. While NiMH batteries were once the more affordable option, they now find it challenging to match the performance value that consumers seek.
- Further, as the infrastructure for electric vehicles (EVs) evolves, the rapid charging capabilities of Li-ion batteries become increasingly vital. In bustling urban settings, both consumers and fleet operators prioritize swift charging. On the other hand, NiMH batteries, despite their durability, have slower charging times. This lag renders them less ideal for the ongoing EV market, where charging speed is emerging as a critical competitive edge.
- While NiMH batteries are still used in some hybrid electric vehicles (HEVs) due to their robustness and long cycle life, Li-ion technology dominates in battery electric vehicles (BEVs), representing the future of EVs. Companies are initiating numerous projects to increase lithium-ion battery production to fulfill the rising demand for EVs across the region.
- For instance, in May 2024, Blue Solutions, a French company, unveiled plans for a EUR 2 billion (USD 2.17 billion) gigafactory in eastern France. This facility is expected to focus on producing advanced batteries, including lithium-ion batteries for electric vehicles, boasting a rapid 20-minute charging time. Production is slated to commence by 2030. These developments are poised to bolster the adoption of lithium-ion batteries in the region, potentially curbing the growth of the nickel metal hydride battery market for electric vehicle applications in the foreseeable future.
- Hence, the growth of France's NiMH batteries in the EV sector has been restrained primarily by the rapid evolution and dominance of Li-ion batteries, which offer superior energy density, lower weight, faster charging times, and improving cost competitiveness.

Hybrid Electric Vehicles Propulsion Type Segment Witnessed Significant Growth.

- The Nickel Metal Hydride (NiMH) battery market for electric vehicle (EV) applications has seen significant growth, primarily driven by the Hybrid Electric Vehicle (HEV) propulsion segment. NiMH batteries balance power and energy density, aligning perfectly with HEVs' requirements, which utilize an internal combustion engine (ICE) and an electric motor.
- The country is pivoting towards clean energy and placing a heightened emphasis on electric vehicles (EVs). Over recent years, sales of EVs, including hybrids, have surged in the region. Data from the European Commission reveals that in May 2024, registrations reached 36,267, a notable 21% uptick from May 2023. Since the start of 2024, nearly 200,000 new electric and hybrid vehicles have hit the roads, showcasing a 13.7% growth compared to the previous year. The number of hybrid electric vehicle sales is expected to increase significantly across the region and raise the demand for Nickel Metal Hydride (NiMH) batteries in the coming years.
- Further, leading the charge in Europe's environmental initiatives, France has set rigorous vehicle emissions targets. Hybrid Electric Vehicles (HEVs), powered by Nickel-Metal Hydride (NiMH) batteries, serve as a pivotal bridge between conventional Internal Combustion Engine (ICE) vehicles and fully Electric Vehicles (BEVs), aiding France in its quest to shrink its carbon footprint.
- Additionally, the French government's tax incentives and subsidies for electric vehicles, including hybrid vehicles, are boosting the demand for NiMH batteries in this sector. With a focus on reducing greenhouse gases nationally and across the EU, consumers are gravitating towards HEVs, drawn by their lower emissions.
- For instance, in 2023, the French government introduced a grant to purchase new electric or hybrid vehicles. The vehicle's

purchase price is capped at EUR 47,000 (approximately USD 50,660), including VAT. For vehicles priced between EUR 7,000 (around USD 7,545) and EUR 15,400 (about USD 16,600), the grant amounts to between EUR 1,500 (roughly USD 1,615) and EUR 3,000 (approximately USD 3,230). Such grants are expected to create opportunities for the adoption of hybrid Electric vehicles across the country and raise the demand for Nickel Metal Hydride (NiMH) batteries during the forecast period.
- Hence, the significant growth of the HEV segment in France has sustained the demand for NiMH batteries in the automotive market.

France Nickel Metal Hydride Battery Industry Overview

France's nickel metal hydride battery market for electric vehicle applications is semi-consolidated. Some of the major players in the market (in no particular order) include Panasonic Holdings Corporation, Primearth EV Energy Co. Ltd, GS Yuasa Corp, GP Batteries International Ltd, and FDK Corporation, among others.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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