

Observability Tools and Platforms Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented by Component (Solution and Services), By Deployment type (Public cloud, and Private cloud), By End User (BFSI, Healthcare & Life Sciences, Retail and E-commerce, Manufacturing, Telecom and IT, Government and public sector, Media and Entertainment and Others), By Region, By Company and By Geography, Forecast & Opportunities, 2018-2028

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Abstracts

Global Nickel Metal Hydride (NiMH) Battery Market was valued at USD 2.08 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 4.19% through 2028.

The Nickel Metal Hydride (NiMH) Battery market refers to the global industry dedicated to the production, distribution, and utilization of Nickel Metal Hydride batteries. These rechargeable batteries are a type of electrochemical energy storage device that stores electrical energy by employing a chemical reaction involving nickel, a positive electrode made of nickel oxide hydroxide (NiOOH), and a negative electrode that contains a metal hydride alloy. The NiMH battery market encompasses a wide range of applications across various industries, including consumer electronics, automotive, renewable energy, telecommunications, and medical devices. NiMH batteries have gained prominence due to their attributes, including reliability, safety, cost-effectiveness, and environmental sustainability. They find extensive use in portable electronic devices like

cordless phones, digital cameras, and flashlights, as well as in hybrid electric vehicles (HEVs), where they serve as an energy storage solution for electric propulsion. The NiMH battery market is influenced by factors such as technological advancements, environmental regulations, consumer demand for longer-lasting and eco-friendly power sources, and the need for energy storage solutions in renewable energy systems. As industries continue to seek efficient and sustainable energy storage options, the NiMH battery market plays a pivotal role in meeting these demands.

Key Market Drivers

Strong Demand in Portable Electronics and Gadgets

The global NiMH battery market is significantly driven by the escalating demand for portable electronic devices and gadgets. These batteries are extensively used in a myriad of consumer electronics, ranging from remote controls and flashlights to cordless phones and digital cameras. The appeal of NiMH batteries in these applications lies in their ability to provide a reliable, cost-effective power source. NiMH batteries offer a favorable combination of attributes, including moderate energy density, affordability, and safety. They are renowned for delivering consistent power to these devices, resulting in extended usage periods. Additionally, NiMH batteries are rechargeable, a feature that aligns with the growing trend of sustainable and eco-friendly solutions. As the global consumer electronics market continues to expand, NiMH batteries remain a staple power source, propelling the overall growth of the NiMH battery market.

Sustained Relevance in Electric Vehicles (EVs) and Hybrid Vehicles (HEVs)

The global transition toward cleaner and more sustainable transportation solutions, including electric vehicles (EVs) and hybrid electric vehicles (HEVs), serves as a significant driver for the NiMH battery market. While lithium-ion batteries have gained prominence as the primary choice for pure EVs, NiMH batteries maintain a substantial presence in the HEV segment. HEVs, characterized by their combination of internal combustion engines and electric propulsion, rely on batteries for energy storage. NiMH batteries have a proven track record of reliability and safety in HEV applications. Their enduring appeal is partly due to their lower cost compared to lithium-ion alternatives, making them a cost-effective choice for manufacturers and consumers. As the automotive industry continues its transition toward electrification, NiMH batteries are anticipated to retain their pivotal role in HEVs. This continued demand in the automotive sector contributes significantly to the sustained growth of the global NiMH battery market.

Renewable Energy Storage Solutions

The increasing adoption of renewable energy sources, such as solar and wind power, necessitates efficient and sustainable energy storage solutions. NiMH batteries have emerged as a compelling choice for energy storage systems designed to harness the intermittent energy generated by these sources. NiMH batteries offer several advantages for renewable energy storage. They are renowned for their reliability, longevity, and ability to withstand frequent charge and discharge cycles. This makes them ideal for storing excess energy generated during periods of high renewable energy production and releasing it during times of high demand or low energy generation. In both residential and industrial settings, NiMH batteries contribute to a more stable and sustainable energy grid. They provide a dependable means of storing renewable energy for later use, reducing reliance on fossil fuels and bolstering the integration of clean energy into the global energy landscape.

Medical Devices and Healthcare Applications

The healthcare industry relies heavily on battery-powered medical devices and equipment to deliver critical care and diagnostics. NiMH batteries have established themselves as a reliable power source in this sector due to their longevity, consistent performance, and ability to provide dependable power in critical healthcare scenarios. A wide array of medical devices, such as implantable medical devices, portable diagnostic tools, and mobility aids like electric wheelchairs, depend on NiMH batteries to ensure uninterrupted functionality. These batteries offer peace of mind in situations where power failure is not an option, ensuring that medical professionals can rely on the consistent performance of their equipment. The healthcare sector's growing demand for advanced medical devices and the need for reliable power solutions contribute to the sustained demand for NiMH batteries in healthcare applications. This segment represents a vital driver in the global NiMH battery market.

Remote and Off-Grid Power Solutions

NiMH batteries have found a strong foothold in remote and off-grid power solutions, where access to a stable power grid is limited or nonexistent. These batteries are invaluable in various applications, including remote telecommunications equipment, off-grid residential power systems, and remote monitoring devices. In such environments, NiMH batteries serve as dependable energy storage solutions. They can store energy from intermittent power sources such as solar panels or wind turbines and release it

when needed. This ensures a consistent power supply in remote and off-grid locations, supporting essential services and communications. NiMH batteries contribute to enhancing the quality of life in off-grid communities and enabling remote operations in diverse industries. Their ability to provide reliable power in challenging conditions makes them a vital driver in the global NiMH battery market.

Sustainability and Environmental Considerations

Growing environmental consciousness and a heightened focus on sustainability have spurred interest in eco-friendly battery technologies. NiMH batteries have positioned themselves as a favorable choice in this regard, given their relatively lower environmental impact and safety profile compared to certain other battery chemistries. NiMH batteries are less susceptible to thermal runaway events, enhancing their safety and making them an attractive option for applications where safety is paramount. Furthermore, NiMH batteries do not contain toxic heavy metals such as cadmium, which aligns with environmental regulations and guidelines. This heightened emphasis on environmental responsibility has led to the adoption of NiMH batteries in various applications where sustainability and safety considerations are central. As industries and consumers alike prioritize eco-friendly solutions, NiMH batteries continue to drive progress in the global battery market.

Government Policies are Likely to Propel the Market

Environmental Regulations and Sustainability Initiatives

Governments around the world have implemented environmental regulations and sustainability initiatives to reduce the environmental impact of batteries, including NiMH batteries. These policies are designed to promote responsible battery manufacturing, usage, and disposal. One key policy is the enforcement of recycling and disposal regulations. Many governments require battery manufacturers to establish collection and recycling programs to ensure that used NiMH batteries are properly disposed of or recycled. This helps prevent hazardous materials from entering landfills and minimizes the environmental footprint of NiMH batteries. Additionally, some governments provide incentives or subsidies to encourage the development and adoption of sustainable battery technologies, including NiMH batteries. These policies promote research and innovation in battery chemistry and recycling methods.

Safety Standards and Certification

To protect consumers and ensure the safe use of NiMH batteries, governments have established safety standards and certification requirements. These policies mandate that NiMH battery manufacturers adhere to specific safety guidelines and obtain certification for their products. For example, batteries must meet safety standards related to thermal stability, overcharge protection, and short-circuit prevention. Compliance with these standards is often a prerequisite for selling NiMH batteries in domestic and international markets. Governments also conduct regular inspections and quality control checks to ensure that NiMH batteries on the market meet safety and performance requirements. These policies aim to build consumer trust in NiMH battery products by providing assurance of their safety and reliability.

Research and Development Funding

Many governments allocate funding for research and development (R&D) in the field of energy storage, including NiMH battery technology. These R&D policies encourage collaboration between government agencies, research institutions, and private companies to advance the state of NiMH battery technology. Funding is often provided in the form of grants, subsidies, or partnerships to support projects aimed at improving NiMH battery performance, energy density, and durability. These policies drive innovation in NiMH battery chemistry, manufacturing processes, and recycling methods. By investing in R&D, governments aim to enhance the competitiveness of NiMH batteries in the global market, making them a more attractive and sustainable option for various applications.

Incentives for Electric Vehicles (EVs) and Hybrid Vehicles

To promote the adoption of electric vehicles (EVs) and hybrid vehicles (HEVs), governments often offer incentives and subsidies that indirectly benefit the NiMH battery market. NiMH batteries are commonly used in HEVs, making them an essential component of these eco-friendly vehicles. Government policies may include tax credits, rebates, reduced registration fees, and access to carpool lanes for EV and HEV owners. These incentives make EVs and HEVs more affordable and attractive to consumers, ultimately increasing the demand for NiMH batteries in the automotive sector. By supporting the growth of the electric vehicle market, governments contribute to the expansion of the NiMH battery market.

Energy Storage Initiatives

The integration of renewable energy sources, such as wind and solar power, into the

energy grid has prompted governments to develop energy storage initiatives. NiMH batteries play a role in these initiatives by providing reliable and cost-effective energy storage solutions. Government policies may include incentives for the installation of energy storage systems that use NiMH batteries. These systems help balance the intermittency of renewable energy generation and contribute to grid stability. Additionally, some governments invest in research and pilot projects to explore the potential of NiMH batteries for grid-scale energy storage. These initiatives aim to leverage NiMH battery technology to enhance the efficiency and reliability of renewable energy integration.

Trade and Import/Export Regulations

Government policies related to trade and import/export regulations impact the NiMH battery market, especially concerning the global supply chain. These policies can include tariffs, trade agreements, and quality standards that affect the import and export of NiMH batteries and their components. For example, trade policies may influence the cost of importing raw materials necessary for NiMH battery manufacturing. Tariffs on these materials can impact production costs and, subsequently, the pricing of NiMH batteries in domestic and international markets. Government policies can also establish quality and safety standards for NiMH batteries that must be met to facilitate cross-border trade. Compliance with these standards is essential for manufacturers to access global markets and ensure product quality and safety.

In conclusion, government policies significantly influence the global NiMH battery market by addressing environmental sustainability, safety standards, R&D funding, incentives for electric vehicles and renewable energy, and trade and import/export regulations. These policies collectively shape the production, adoption, and sustainability of NiMH batteries in various applications.

Key Market Challenges

Competition from Lithium-ion Batteries

One of the primary challenges facing the global Nickel Metal Hydride (NiMH) battery market is fierce competition from lithium-ion batteries. Lithium-ion batteries have become the dominant choice for various applications due to their high energy density, lightweight nature, and superior performance characteristics.

The challenge arises because lithium-ion batteries offer several advantages over NiMH

batteries:

Higher Energy Density: Lithium-ion batteries typically have a higher energy density, which means they can store more energy in a smaller and lighter package. This characteristic is especially important in applications where size and weight constraints are critical, such as smartphones, laptops, and electric vehicles (EVs).

Faster Charging: Lithium-ion batteries can charge more quickly than NiMH batteries. This feature is highly desirable for consumer electronics and EVs, where users want rapid charging to minimize downtime.

Longer Cycle Life: Lithium-ion batteries often have a longer cycle life, which means they can withstand more charge and discharge cycles before experiencing a significant decline in performance. This makes them appealing for applications that require extended battery lifespan.

Reduced Self-Discharge: Lithium-ion batteries have a lower self-discharge rate compared to NiMH batteries, which means they can retain their charge for more extended periods when not in use.

Due to these advantages, lithium-ion batteries have gained widespread adoption in consumer electronics, EVs, energy storage systems, and renewable energy applications. This competition has posed a significant challenge for the NiMH battery market, particularly in applications where lithium-ion batteries excel.

To address this challenge, manufacturers in the NiMH battery market must focus on improving the performance and energy density of NiMH batteries while maintaining their advantages in terms of safety, cost-effectiveness, and environmental sustainability. Additionally, targeting niche markets where NiMH batteries offer unique benefits, such as high-reliability applications and specific medical devices, can help mitigate this competitive challenge.

Limited Energy Density and Weight Constraints

Another significant challenge faced by the global NiMH battery market is the limited energy density of NiMH batteries, which can be a hindrance in applications requiring high energy storage capacity in compact and lightweight packages. Energy density refers to the amount of energy that a battery can store per unit of volume or weight. NiMH batteries typically have lower energy density compared to lithium-ion batteries.

This limitation can be problematic in applications like EVs and portable consumer electronics, where users demand longer operating times and smaller, lighter devices. Weight constraints are particularly relevant in the aerospace and aviation industries, where every additional kilogram of weight has a significant impact on fuel efficiency and overall performance. NiMH batteries may struggle to meet the stringent weight limitations of these applications. Additionally, energy density affects the range and performance of electric vehicles. As the demand for EVs continues to grow, consumers and manufacturers seek batteries that can offer longer driving ranges without compromising on weight and size. While NiMH batteries have many advantages, including safety and cost-effectiveness, addressing the energy density challenge is crucial to expanding their market reach and competing effectively with lithium-ion batteries. Research and development efforts are ongoing to improve the energy density of NiMH batteries and make them more suitable for high-energy applications.

To overcome this challenge, stakeholders in the NiMH battery market should invest in R&D to enhance the energy density of NiMH batteries while maintaining their other strengths, such as safety, reliability, and recyclability. Targeting specific applications where these advantages are more critical, such as backup power systems and grid storage, can also help mitigate the energy density challenge.

Segmental Insights

Small-Sized Ni-MH Battery for Consumer Electronics Insights

The Small-Sized Ni-MH Battery for Consumer Electronics segment had the largest market share in 2022 & expected to maintain in the forecast period. One of the primary drivers behind the dominance of small-sized Ni-MH batteries is the widespread proliferation of consumer electronics. These devices include cordless phones, digital cameras, remote controls, flashlights, portable gaming devices, and a multitude of other portable gadgets. In today's tech-savvy world, consumers rely heavily on these devices for communication, entertainment, and convenience. As a result, there is a consistently high demand for reliable power sources to keep these devices operational. Small-sized Ni-MH batteries are rechargeable, which aligns perfectly with the preferences of modern consumers. Unlike disposable batteries, rechargeable Ni-MH batteries can be used repeatedly, significantly reducing the long-term cost of powering consumer electronics. This cost-efficiency appeals to budget-conscious consumers and contributes to the segment's dominance. Ni-MH batteries are renowned for their reliability and stable performance. In consumer electronics, consistency in power supply is critical. Whether it's powering a cordless phone for uninterrupted communication or a digital camera for

capturing precious moments, consumers expect their devices to work reliably. Small-sized Ni-MH batteries meet these expectations by providing consistent and dependable power. In an era of growing environmental awareness, small-sized Ni-MH batteries stand out as an eco-friendly choice. They are rechargeable, reducing the number of batteries that end up in landfills. Additionally, NiMH batteries do not contain toxic heavy metals like cadmium, aligning with environmental regulations and guidelines. Many regions and consumers prioritize environmentally responsible choices, further boosting the popularity of Ni-MH batteries. Government and industry initiatives promoting battery recycling have played a significant role in the dominance of small-sized Ni-MH batteries. Many regions have introduced battery recycling programs, making it convenient for consumers to recycle their used Ni-MH batteries. This responsible approach to battery disposal encourages the use of Ni-MH batteries in consumer electronics. Small-sized Ni-MH batteries find applications in a diverse range of consumer devices, from everyday household items to specialized gadgets. This diversity ensures a constant and broad market for these batteries, contributing to their dominance.

Automotive Insights

The Automotive segment had the largest market share in 2022 and is projected to experience rapid growth during the forecast period. NiMH batteries played a crucial role in HEVs as they provided the energy storage needed for electric propulsion alongside an internal combustion engine. HEVs, such as the Toyota Prius, were among the early adopters of NiMH battery technology. Their popularity and adoption in the automotive market contributed to the growth of NiMH batteries. NiMH batteries have a track record of reliability and safety, which is a paramount consideration in the automotive sector. Consumers expect consistent performance and longevity from their vehicles, and NiMH batteries were known for meeting these expectations. Compared to some other advanced battery technologies like lithium-ion, NiMH batteries were relatively cost-effective. This cost advantage made them a preferred choice for automakers looking to produce more affordable hybrid vehicles. NiMH batteries were widely available and had an established manufacturing infrastructure, making them readily accessible to automakers for integration into their vehicles. NiMH batteries, while not as energy-dense as lithium-ion batteries, are relatively more environmentally friendly. They do not contain toxic heavy metals like cadmium, making them a safer and greener option.

Regional Insights

Asia Pacific:

Asia Pacific held the largest market for NiMH batteries in 2022. The growth of the market in this region is driven by the following factors:

The rapid growth of the portable electronics market in Asia Pacific: Asia Pacific is home to some of the largest economies in the world, such as China, India, and Japan. These economies are also experiencing rapid growth in the portable electronics market. This is driving the demand for NiMH batteries in the region.

The increasing adoption of hybrid electric vehicles in Asia Pacific: Asia Pacific is also a leading market for hybrid electric vehicles. The increasing adoption of these vehicles is driving the demand for NiMH batteries in the region.

The rising demand for backup power in Asia Pacific: Asia Pacific is also a major market for backup power. The rising demand for backup power is driving the demand for NiMH batteries in the region.

North America:

North America held the second-largest market for NiMH batteries in 2022. The growth of the market in this region is driven by the following factors:

The large and mature portable electronics market in North America: North America is home to some of the largest and most mature portable electronics markets in the world. This is driving the demand for NiMH batteries in the region.

The increasing adoption of hybrid electric vehicles in North America: North America is also a leading market for hybrid electric vehicles. The increasing adoption of these vehicles is driving the demand for NiMH batteries in the region.

The rising demand for backup power in North America: North America is also a major market for backup power. The rising demand for backup power is driving the demand for NiMH batteries in the region.

Key Market Players

Johnson Controls International PLC

Sony Corporation

Panasonic Corporation

Saft Groupe SA

Hitachi Maxell Ltd.

Energizer Holdings, Inc.

Varta AG

GS Yuasa International Ltd.

Primearth EV Energy Co., Ltd.

GP Batteries International Limited

Report Scope:

In this report, the Global Nickel Metal Hydride (NiMH) Battery Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Nickel Metal Hydride (NiMH) Battery Market, By Type:

Small-Sized Ni-MH Battery for Consumer Electronics

Large-Sized Ni-MH Battery for HEV

Nickel Metal Hydride (NiMH) Battery Market, By Application:

Automotive

Cordless Phone

Dust Collector

Personal Care

Lighting Tools

Electric Tool

Nickel Metal Hydride (NiMH) Battery Market, By Component:

Positive Electrode

Negative Electrode

Others

Nickel Metal Hydride (NiMH) Battery Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Nickel Metal Hydride (NiMH) Battery Market.

Available Customizations:

Global Nickel Metal Hydride (NiMH) Battery market report with the given market data,

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Tech Sci Research offers customizations according to 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 to five).

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