

Nickel-Hydrogen Batteries Market - Global Outlook and Forecast 2022-2028

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Abstracts

The active components of a rechargeable Nickel-Hydrogen Batteries in the charged state consist of nickel hydroxide (NiOOH) in the positive electrode and a hydrogen storing metal alloy (MH) in the negative electrode as well as an alkaline electrolyte.

The world Nickel Metal Hydride (NiMH) batteries market is currently at a mature stage and its technology offers limited scope for innovation. However, relative to the newer alternative chemistries, NiMH provides a price-efficient solution for many applications, given its lower price per kWh and performance characteristics. Growth opportunities arise mainly from two end-user segments, namely the consumer electronics and industrial segments. On one hand, NiMH batteries are well suited to supply the growing demand for rechargeable batteries employed in toys, cordless phones, vacuum cleaners, and Others cordless appliances. On the Other hand, the industrial segment is poised to demand NiMH batteries for powering appliances that require rugged batteries such as automotive applications where it is the technology of choice for powering HEVs and where it has accumulated over 10 years of trouble free service and can thus last for the lifetime of the car. NiMH can handle the high power levels typical in EV applications, the active chemicals are inherently safer than Lithium based cells and NiMH batteries don't need the complex battery management systems (BMS) essential with Lithium batteries.

At present, in developed countries, the Ni-MH Battery industry is generally at a more advanced level. The world's large Enterprises are mainly concentrated in Japan and China. Meanwhile, foreign companies have more advanced equipment, strong R & D capability, and leading technical level. However, foreign companies' manufacturing cost is relatively higher, compared with Chinese companies. With the development of Chinese Ni-MH Battery production technology, their share in the international market is

increasing, and competitiveness in the international market gradually increases.

China's Ni-MH Battery industry has developed into a national wide status with certain research and production capacity, industry product mix has gradually improved, currently. China has become a large international production country of Ni-MH Battery, but the production technology is relatively laggard to produce some low-end product. The key product of China Ni-MH Battery market is Small-Sized battery for Consumer Electronics. The Ni-MH Battery for HEV are monopolized by Primearth EV Energy. The future of Ni-MH Battery is dark for the substituted by lithium battery in both consumer electronics application and HEV.

This report contains market size and forecasts of Nickel-Hydrogen Batteries in global, including the following market information:

Global Nickel-Hydrogen Batteries Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Nickel-Hydrogen Batteries Market Sales, 2017-2022, 2023-2028, (MW)

Global top five Nickel-Hydrogen Batteries companies in 2021 (%)

The global Nickel-Hydrogen Batteries market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Small-Sized Ni-MH Battery for Consumer Electronics Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Nickel-Hydrogen Batteries include Primearth EV Energy, FDK, GP Batteries International, Highpower International Inc, Corun, Panasonic, Huanyu battery, GS Yuasa and Spectrum Brands (Rayovac), etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Nickel-Hydrogen Batteries manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Nickel-Hydrogen Batteries Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (MW)

Global Nickel-Hydrogen Batteries Market Segment Percentages, by Type, 2021 (%)

Small-Sized Ni-MH Battery for Consumer Electronics

Large-Sized Ni-MH Battery for HEV

Global Nickel-Hydrogen Batteries Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (MW)

Global Nickel-Hydrogen Batteries Market Segment Percentages, by Application, 2021 (%)

HEV

Retail Market

Cordless Phone

Dust Collector

Personal Care

Lighting Tools

Electric Tool

Others

Global Nickel-Hydrogen Batteries Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (MW)

Global Nickel-Hydrogen Batteries Market Segment Percentages, By Region and

Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Nickel-Hydrogen Batteries revenues in global market, 2017-2022
(Estimated), (\$ millions)

Key companies Nickel-Hydrogen Batteries revenues share in global market, 2021 (%)

Key companies Nickel-Hydrogen Batteries sales in global market, 2017-2022
(Estimated), (MW)

Key companies Nickel-Hydrogen Batteries sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Primearth EV Energy

FDK

GP Batteries International

Highpower International Inc

Corun

Panasonic

Huanyu battery

GS Yuasa

Spectrum Brands (Rayovac)

Lexel Battery (Coslight)

EPT Battery Co., Ltd

Energizer Holdings

Great Power Energy

Suppo

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