

# Global Metal-air Battery Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Metal-air Battery market size was valued at USD 259.3 million in 2023 and is forecast to a readjusted size of USD 643.9 million by 2030 with a CAGR of 13.9% during review period.

A metal-air battery is a type of electrochemical energy storage device that utilizes a chemical reaction between a metal and oxygen from the air to generate electrical energy. It is called a metal-air battery because the anode of the battery is typically a pure metal, such as zinc, aluminum, or lithium, while the cathode is a porous material that allows air (containing oxygen) to reach the battery. Metal air battery is a kind of half energy storage and half fuel battery, which is considered as a new generation of energy storage and conversion device. Metal air battery has the advantages of good rate performance, high energy density, and low carbon sustainability. Metal-air batteries are known for their high theoretical energy densities, which means they have the potential to store more energy per unit weight compared to other types of batteries, such as lithium-ion batteries. This makes them attractive for applications that require long-lasting power, such as electric vehicles, portable electronics, and grid-scale energy storage.

In the global market, the core manufacturers of Metal-air Battery in the global market include GP Batteries (Gold Peak), Duracell Activair, and Maxell? ect. The top three companies within this industry hold more than 50% of the market share. North America, Europe, China, Japan, and India are the main production regions of this product, of which North America and China market each accounted for about 30% of the market share. The product can be classified as zinc air battery, aluminium air battery, lithium air battery and so on according to the material. They are widely used in electronic devices, energy storage, electric vehicles and other fields.

The Global Info Research report includes an overview of the development of the Metal-air Battery industry chain, the market status of Electronic Devices (hearing aid etc) (Zinc-air Battery, Aluminum-air Battery), Energy Storage (Zinc-air Battery, Aluminum-air Battery), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Metal-air Battery.

Regionally, the report analyzes the Metal-air Battery markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Metal-air Battery market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Metal-air Battery market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Metal-air Battery industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MWh), revenue generated, and market share of different by Materials (e.g., Zinc-air Battery, Aluminum-air Battery).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Metal-air Battery market.

**Regional Analysis:** The report involves examining the Metal-air Battery market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Metal-air Battery market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Metal-air Battery:

**Company Analysis:** Report covers individual Metal-air Battery manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Metal-air Battery. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Electronic Devices (hearing aid etc), Energy Storage).

**Technology Analysis:** Report covers specific technologies relevant to Metal-air Battery. It assesses the current state, advancements, and potential future developments in Metal-air Battery areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Metal-air Battery market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Metal-air Battery market is split by Materials and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Materials, and by Application in terms of volume and value.

### Market segment by Materials

Zinc-air Battery

Aluminum-air Battery

Lithium-air Battery

Others

## Market segment by Application

Electronic Devices (hearing aid etc)

Energy Storage

Electric Vehicles

Others

## Major players covered

GP Batteries (Gold Peak)

Duracell Activair

Maxell

Panasonic

Energizer Holdings

Zinc8 Energy Solutions

NantEnergy

Polyplus Battery

Renata (Swatch)

Log9 Materials

Phinergy

Thunderzee

Fuji Pigment

ZAF Energy Systems

Form Energy

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Metal-air Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Metal-air Battery, with price, sales, revenue and global market share of Metal-air Battery from 2019 to 2024.

Chapter 3, the Metal-air Battery competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Metal-air Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Materials and application, with sales market share and growth rate by materials, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Metal-air Battery market forecast, by regions, materials and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Metal-air Battery.

Chapter 14 and 15, to describe Metal-air Battery sales channel, distributors, customers, research findings and conclusion.

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