

# 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.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Metal-air Battery
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Materials
  - 1.3.1 Overview: Global Metal-air Battery Consumption Value by Materials: 2019 Versus 2023 Versus 2030
  - 1.3.2 Zinc-air Battery
  - 1.3.3 Aluminum-air Battery
  - 1.3.4 Lithium-air Battery
  - 1.3.5 Others
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Metal-air Battery Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Electronic Devices (hearing aid etc)
  - 1.4.3 Energy Storage
  - 1.4.4 Electric Vehicles
  - 1.4.5 Others
- 1.5 Global Metal-air Battery Market Size & Forecast
  - 1.5.1 Global Metal-air Battery Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global Metal-air Battery Sales Quantity (2019-2030)
  - 1.5.3 Global Metal-air Battery Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

- 2.1 GP Batteries (Gold Peak)
  - 2.1.1 GP Batteries (Gold Peak) Details
  - 2.1.2 GP Batteries (Gold Peak) Major Business
  - 2.1.3 GP Batteries (Gold Peak) Metal-air Battery Product and Services
  - 2.1.4 GP Batteries (Gold Peak) Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.1.5 GP Batteries (Gold Peak) Recent Developments/Updates
- 2.2 Duracell Activair
  - 2.2.1 Duracell Activair Details
  - 2.2.2 Duracell Activair Major Business
  - 2.2.3 Duracell Activair Metal-air Battery Product and Services
  - 2.2.4 Duracell Activair Metal-air Battery Sales Quantity, Average Price, Revenue,

## Gross Margin and Market Share (2019-2024)

### 2.2.5 Duracell Activair Recent Developments/Updates

## 2.3 Maxell

### 2.3.1 Maxell Details

### 2.3.2 Maxell Major Business

### 2.3.3 Maxell Metal-air Battery Product and Services

### 2.3.4 Maxell Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.3.5 Maxell Recent Developments/Updates

## 2.4 Panasonic

### 2.4.1 Panasonic Details

### 2.4.2 Panasonic Major Business

### 2.4.3 Panasonic Metal-air Battery Product and Services

### 2.4.4 Panasonic Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.4.5 Panasonic Recent Developments/Updates

## 2.5 Energizer Holdings

### 2.5.1 Energizer Holdings Details

### 2.5.2 Energizer Holdings Major Business

### 2.5.3 Energizer Holdings Metal-air Battery Product and Services

### 2.5.4 Energizer Holdings Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.5.5 Energizer Holdings Recent Developments/Updates

## 2.6 Zinc8 Energy Solutions

### 2.6.1 Zinc8 Energy Solutions Details

### 2.6.2 Zinc8 Energy Solutions Major Business

### 2.6.3 Zinc8 Energy Solutions Metal-air Battery Product and Services

### 2.6.4 Zinc8 Energy Solutions Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.6.5 Zinc8 Energy Solutions Recent Developments/Updates

## 2.7 NantEnergy

### 2.7.1 NantEnergy Details

### 2.7.2 NantEnergy Major Business

### 2.7.3 NantEnergy Metal-air Battery Product and Services

### 2.7.4 NantEnergy Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.7.5 NantEnergy Recent Developments/Updates

## 2.8 Polyplus Battery

### 2.8.1 Polyplus Battery Details



- 2.8.2 Polyplus Battery Major Business
- 2.8.3 Polyplus Battery Metal-air Battery Product and Services
- 2.8.4 Polyplus Battery Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 Polyplus Battery Recent Developments/Updates
- 2.9 Renata (Swatch)
  - 2.9.1 Renata (Swatch) Details
  - 2.9.2 Renata (Swatch) Major Business
  - 2.9.3 Renata (Swatch) Metal-air Battery Product and Services
  - 2.9.4 Renata (Swatch) Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.9.5 Renata (Swatch) Recent Developments/Updates
- 2.10 Log9 Materials
  - 2.10.1 Log9 Materials Details
  - 2.10.2 Log9 Materials Major Business
  - 2.10.3 Log9 Materials Metal-air Battery Product and Services
  - 2.10.4 Log9 Materials Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.10.5 Log9 Materials Recent Developments/Updates
- 2.11 Phinergy
  - 2.11.1 Phinergy Details
  - 2.11.2 Phinergy Major Business
  - 2.11.3 Phinergy Metal-air Battery Product and Services
  - 2.11.4 Phinergy Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.11.5 Phinergy Recent Developments/Updates
- 2.12 Thunderzee
  - 2.12.1 Thunderzee Details
  - 2.12.2 Thunderzee Major Business
  - 2.12.3 Thunderzee Metal-air Battery Product and Services
  - 2.12.4 Thunderzee Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.12.5 Thunderzee Recent Developments/Updates
- 2.13 Fuji Pigment
  - 2.13.1 Fuji Pigment Details
  - 2.13.2 Fuji Pigment Major Business
  - 2.13.3 Fuji Pigment Metal-air Battery Product and Services
  - 2.13.4 Fuji Pigment Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.13.5 Fuji Pigment Recent Developments/Updates
- 2.14 ZAF Energy Systems
  - 2.14.1 ZAF Energy Systems Details
  - 2.14.2 ZAF Energy Systems Major Business
  - 2.14.3 ZAF Energy Systems Metal-air Battery Product and Services
  - 2.14.4 ZAF Energy Systems Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.14.5 ZAF Energy Systems Recent Developments/Updates
- 2.15 Form Energy
  - 2.15.1 Form Energy Details
  - 2.15.2 Form Energy Major Business
  - 2.15.3 Form Energy Metal-air Battery Product and Services
  - 2.15.4 Form Energy Metal-air Battery Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.15.5 Form Energy Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: METAL-AIR BATTERY BY MANUFACTURER**

- 3.1 Global Metal-air Battery Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Metal-air Battery Revenue by Manufacturer (2019-2024)
- 3.3 Global Metal-air Battery Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
  - 3.4.1 Producer Shipments of Metal-air Battery by Manufacturer Revenue (\$MM) and Market Share (%): 2023
  - 3.4.2 Top 3 Metal-air Battery Manufacturer Market Share in 2023
  - 3.4.2 Top 6 Metal-air Battery Manufacturer Market Share in 2023
- 3.5 Metal-air Battery Market: Overall Company Footprint Analysis
  - 3.5.1 Metal-air Battery Market: Region Footprint
  - 3.5.2 Metal-air Battery Market: Company Product Type Footprint
  - 3.5.3 Metal-air Battery Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Metal-air Battery Market Size by Region
  - 4.1.1 Global Metal-air Battery Sales Quantity by Region (2019-2030)
  - 4.1.2 Global Metal-air Battery Consumption Value by Region (2019-2030)
  - 4.1.3 Global Metal-air Battery Average Price by Region (2019-2030)

- 4.2 North America Metal-air Battery Consumption Value (2019-2030)
- 4.3 Europe Metal-air Battery Consumption Value (2019-2030)
- 4.4 Asia-Pacific Metal-air Battery Consumption Value (2019-2030)
- 4.5 South America Metal-air Battery Consumption Value (2019-2030)
- 4.6 Middle East and Africa Metal-air Battery Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY MATERIALS**

- 5.1 Global Metal-air Battery Sales Quantity by Materials (2019-2030)
- 5.2 Global Metal-air Battery Consumption Value by Materials (2019-2030)
- 5.3 Global Metal-air Battery Average Price by Materials (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Metal-air Battery Sales Quantity by Application (2019-2030)
- 6.2 Global Metal-air Battery Consumption Value by Application (2019-2030)
- 6.3 Global Metal-air Battery Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

- 7.1 North America Metal-air Battery Sales Quantity by Materials (2019-2030)
- 7.2 North America Metal-air Battery Sales Quantity by Application (2019-2030)
- 7.3 North America Metal-air Battery Market Size by Country
  - 7.3.1 North America Metal-air Battery Sales Quantity by Country (2019-2030)
  - 7.3.2 North America Metal-air Battery Consumption Value by Country (2019-2030)
  - 7.3.3 United States Market Size and Forecast (2019-2030)
  - 7.3.4 Canada Market Size and Forecast (2019-2030)
  - 7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

- 8.1 Europe Metal-air Battery Sales Quantity by Materials (2019-2030)
- 8.2 Europe Metal-air Battery Sales Quantity by Application (2019-2030)
- 8.3 Europe Metal-air Battery Market Size by Country
  - 8.3.1 Europe Metal-air Battery Sales Quantity by Country (2019-2030)
  - 8.3.2 Europe Metal-air Battery Consumption Value by Country (2019-2030)
  - 8.3.3 Germany Market Size and Forecast (2019-2030)
  - 8.3.4 France Market Size and Forecast (2019-2030)
  - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Metal-air Battery Sales Quantity by Materials (2019-2030)

9.2 Asia-Pacific Metal-air Battery Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Metal-air Battery Market Size by Region

9.3.1 Asia-Pacific Metal-air Battery Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Metal-air Battery Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

10.1 South America Metal-air Battery Sales Quantity by Materials (2019-2030)

10.2 South America Metal-air Battery Sales Quantity by Application (2019-2030)

10.3 South America Metal-air Battery Market Size by Country

10.3.1 South America Metal-air Battery Sales Quantity by Country (2019-2030)

10.3.2 South America Metal-air Battery Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Metal-air Battery Sales Quantity by Materials (2019-2030)

11.2 Middle East & Africa Metal-air Battery Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Metal-air Battery Market Size by Country

11.3.1 Middle East & Africa Metal-air Battery Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa Metal-air Battery Consumption Value by Country  
(2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

- 12.1 Metal-air Battery Market Drivers
- 12.2 Metal-air Battery Market Restraints
- 12.3 Metal-air Battery Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Metal-air Battery and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Metal-air Battery
- 13.3 Metal-air Battery Production Process
- 13.4 Metal-air Battery Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Metal-air Battery Typical Distributors
- 14.3 Metal-air Battery Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. Global Metal-air Battery Consumption Value by Materials, (USD Million), 2019 & 2023 & 2030
- Table 2. Global Metal-air Battery Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Table 3. GP Batteries (Gold Peak) Basic Information, Manufacturing Base and Competitors
- Table 4. GP Batteries (Gold Peak) Major Business
- Table 5. GP Batteries (Gold Peak) Metal-air Battery Product and Services
- Table 6. GP Batteries (Gold Peak) Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 7. GP Batteries (Gold Peak) Recent Developments/Updates
- Table 8. Duracell Activair Basic Information, Manufacturing Base and Competitors
- Table 9. Duracell Activair Major Business
- Table 10. Duracell Activair Metal-air Battery Product and Services
- Table 11. Duracell Activair Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 12. Duracell Activair Recent Developments/Updates
- Table 13. Maxell Basic Information, Manufacturing Base and Competitors
- Table 14. Maxell Major Business
- Table 15. Maxell Metal-air Battery Product and Services
- Table 16. Maxell Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 17. Maxell Recent Developments/Updates
- Table 18. Panasonic Basic Information, Manufacturing Base and Competitors
- Table 19. Panasonic Major Business
- Table 20. Panasonic Metal-air Battery Product and Services
- Table 21. Panasonic Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 22. Panasonic Recent Developments/Updates
- Table 23. Energizer Holdings Basic Information, Manufacturing Base and Competitors
- Table 24. Energizer Holdings Major Business
- Table 25. Energizer Holdings Metal-air Battery Product and Services
- Table 26. Energizer Holdings Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 27. Energizer Holdings Recent Developments/Updates



Table 28. Zinc8 Energy Solutions Basic Information, Manufacturing Base and Competitors
Table 29. Zinc8 Energy Solutions Major Business
Table 30. Zinc8 Energy Solutions Metal-air Battery Product and Services
Table 31. Zinc8 Energy Solutions Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 32. Zinc8 Energy Solutions Recent Developments/Updates
Table 33. NantEnergy Basic Information, Manufacturing Base and Competitors
Table 34. NantEnergy Major Business
Table 35. NantEnergy Metal-air Battery Product and Services
Table 36. NantEnergy Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 37. NantEnergy Recent Developments/Updates
Table 38. Polyplus Battery Basic Information, Manufacturing Base and Competitors
Table 39. Polyplus Battery Major Business
Table 40. Polyplus Battery Metal-air Battery Product and Services
Table 41. Polyplus Battery Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 42. Polyplus Battery Recent Developments/Updates
Table 43. Renata (Swatch) Basic Information, Manufacturing Base and Competitors
Table 44. Renata (Swatch) Major Business
Table 45. Renata (Swatch) Metal-air Battery Product and Services
Table 46. Renata (Swatch) Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 47. Renata (Swatch) Recent Developments/Updates
Table 48. Log9 Materials Basic Information, Manufacturing Base and Competitors
Table 49. Log9 Materials Major Business
Table 50. Log9 Materials Metal-air Battery Product and Services
Table 51. Log9 Materials Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 52. Log9 Materials Recent Developments/Updates
Table 53. Phinergy Basic Information, Manufacturing Base and Competitors
Table 54. Phinergy Major Business
Table 55. Phinergy Metal-air Battery Product and Services
Table 56. Phinergy Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 57. Phinergy Recent Developments/Updates
Table 58. Thunderzee Basic Information, Manufacturing Base and Competitors
Table 59. Thunderzee Major Business

Table 60. Thunderzee Metal-air Battery Product and Services
Table 61. Thunderzee Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 62. Thunderzee Recent Developments/Updates
Table 63. Fuji Pigment Basic Information, Manufacturing Base and Competitors
Table 64. Fuji Pigment Major Business
Table 65. Fuji Pigment Metal-air Battery Product and Services
Table 66. Fuji Pigment Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 67. Fuji Pigment Recent Developments/Updates
Table 68. ZAF Energy Systems Basic Information, Manufacturing Base and Competitors
Table 69. ZAF Energy Systems Major Business
Table 70. ZAF Energy Systems Metal-air Battery Product and Services
Table 71. ZAF Energy Systems Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 72. ZAF Energy Systems Recent Developments/Updates
Table 73. Form Energy Basic Information, Manufacturing Base and Competitors
Table 74. Form Energy Major Business
Table 75. Form Energy Metal-air Battery Product and Services
Table 76. Form Energy Metal-air Battery Sales Quantity (MWh), Average Price (US\$/KWh), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 77. Form Energy Recent Developments/Updates
Table 78. Global Metal-air Battery Sales Quantity by Manufacturer (2019-2024) & (MWh)
Table 79. Global Metal-air Battery Revenue by Manufacturer (2019-2024) & (USD Million)
Table 80. Global Metal-air Battery Average Price by Manufacturer (2019-2024) & (US\$/KWh)
Table 81. Market Position of Manufacturers in Metal-air Battery, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023
Table 82. Head Office and Metal-air Battery Production Site of Key Manufacturer
Table 83. Metal-air Battery Market: Company Product Type Footprint
Table 84. Metal-air Battery Market: Company Product Application Footprint
Table 85. Metal-air Battery New Market Entrants and Barriers to Market Entry
Table 86. Metal-air Battery Mergers, Acquisition, Agreements, and Collaborations
Table 87. Global Metal-air Battery Sales Quantity by Region (2019-2024) & (MWh)
Table 88. Global Metal-air Battery Sales Quantity by Region (2025-2030) & (MWh)
Table 89. Global Metal-air Battery Consumption Value by Region (2019-2024) & (USD Million)



Table 90. Global Metal-air Battery Consumption Value by Region (2025-2030) & (USD Million)

Table 91. Global Metal-air Battery Average Price by Region (2019-2024) & (US\$/KWh)

Table 92. Global Metal-air Battery Average Price by Region (2025-2030) & (US\$/KWh)

Table 93. Global Metal-air Battery Sales Quantity by Materials (2019-2024) & (MWh)

Table 94. Global Metal-air Battery Sales Quantity by Materials (2025-2030) & (MWh)

Table 95. Global Metal-air Battery Consumption Value by Materials (2019-2024) & (USD Million)

Table 96. Global Metal-air Battery Consumption Value by Materials (2025-2030) & (USD Million)

Table 97. Global Metal-air Battery Average Price by Materials (2019-2024) & (US\$/KWh)

Table 98. Global Metal-air Battery Average Price by Materials (2025-2030) & (US\$/KWh)

Table 99. Global Metal-air Battery Sales Quantity by Application (2019-2024) & (MWh)

Table 100. Global Metal-air Battery Sales Quantity by Application (2025-2030) & (MWh)

Table 101. Global Metal-air Battery Consumption Value by Application (2019-2024) & (USD Million)

Table 102. Global Metal-air Battery Consumption Value by Application (2025-2030) & (USD Million)

Table 103. Global Metal-air Battery Average Price by Application (2019-2024) & (US\$/KWh)

Table 104. Global Metal-air Battery Average Price by Application (2025-2030) & (US\$/KWh)

Table 105. North America Metal-air Battery Sales Quantity by Materials (2019-2024) & (MWh)

Table 106. North America Metal-air Battery Sales Quantity by Materials (2025-2030) & (MWh)

Table 107. North America Metal-air Battery Sales Quantity by Application (2019-2024) & (MWh)

Table 108. North America Metal-air Battery Sales Quantity by Application (2025-2030) & (MWh)

Table 109. North America Metal-air Battery Sales Quantity by Country (2019-2024) & (MWh)

Table 110. North America Metal-air Battery Sales Quantity by Country (2025-2030) & (MWh)

Table 111. North America Metal-air Battery Consumption Value by Country (2019-2024) & (USD Million)

Table 112. North America Metal-air Battery Consumption Value by Country (2025-2030)

& (USD Million)

Table 113. Europe Metal-air Battery Sales Quantity by Materials (2019-2024) & (MWh)

Table 114. Europe Metal-air Battery Sales Quantity by Materials (2025-2030) & (MWh)

Table 115. Europe Metal-air Battery Sales Quantity by Application (2019-2024) & (MWh)

Table 116. Europe Metal-air Battery Sales Quantity by Application (2025-2030) & (MWh)

Table 117. Europe Metal-air Battery Sales Quantity by Country (2019-2024) & (MWh)

Table 118. Europe Metal-air Battery Sales Quantity by Country (2025-2030) & (MWh)

Table 119. Europe Metal-air Battery Consumption Value by Country (2019-2024) & (USD Million)

Table 120. Europe Metal-air Battery Consumption Value by Country (2025-2030) & (USD Million)

Table 121. Asia-Pacific Metal-air Battery Sales Quantity by Materials (2019-2024) & (MWh)

Table 122. Asia-Pacific Metal-air Battery Sales Quantity by Materials (2025-2030) & (MWh)

Table 123. Asia-Pacific Metal-air Battery Sales Quantity by Application (2019-2024) & (MWh)

Table 124. Asia-Pacific Metal-air Battery Sales Quantity by Application (2025-2030) & (MWh)

Table 125. Asia-Pacific Metal-air Battery Sales Quantity by Region (2019-2024) & (MWh)

Table 126. Asia-Pacific Metal-air Battery Sales Quantity by Region (2025-2030) & (MWh)

Table 127. Asia-Pacific Metal-air Battery Consumption Value by Region (2019-2024) & (USD Million)

Table 128. Asia-Pacific Metal-air Battery Consumption Value by Region (2025-2030) & (USD Million)

Table 129. South America Metal-air Battery Sales Quantity by Materials (2019-2024) & (MWh)

Table 130. South America Metal-air Battery Sales Quantity by Materials (2025-2030) & (MWh)

Table 131. South America Metal-air Battery Sales Quantity by Application (2019-2024) & (MWh)

Table 132. South America Metal-air Battery Sales Quantity by Application (2025-2030) & (MWh)

Table 133. South America Metal-air Battery Sales Quantity by Country (2019-2024) & (MWh)

Table 134. South America Metal-air Battery Sales Quantity by Country (2025-2030) & (MWh)

Table 135. South America Metal-air Battery Consumption Value by Country (2019-2024) & (USD Million)

Table 136. South America Metal-air Battery Consumption Value by Country (2025-2030) & (USD Million)

Table 137. Middle East & Africa Metal-air Battery Sales Quantity by Materials (2019-2024) & (MWh)

Table 138. Middle East & Africa Metal-air Battery Sales Quantity by Materials (2025-2030) & (MWh)

Table 139. Middle East & Africa Metal-air Battery Sales Quantity by Application (2019-2024) & (MWh)

Table 140. Middle East & Africa Metal-air Battery Sales Quantity by Application (2025-2030) & (MWh)

Table 141. Middle East & Africa Metal-air Battery Sales Quantity by Region (2019-2024) & (MWh)

Table 142. Middle East & Africa Metal-air Battery Sales Quantity by Region (2025-2030) & (MWh)

Table 143. Middle East & Africa Metal-air Battery Consumption Value by Region (2019-2024) & (USD Million)

Table 144. Middle East & Africa Metal-air Battery Consumption Value by Region (2025-2030) & (USD Million)

Table 145. Metal-air Battery Raw Material

Table 146. Key Manufacturers of Metal-air Battery Raw Materials

Table 147. Metal-air Battery Typical Distributors

Table 148. Metal-air Battery Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Metal-air Battery Picture

Figure 2. Global Metal-air Battery Consumption Value by Materials, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Metal-air Battery Consumption Value Market Share by Materials in 2023

Figure 4. Zinc-air Battery Examples

Figure 5. Aluminum-air Battery Examples

Figure 6. Lithium-air Battery Examples

Figure 7. Others Examples

Figure 8. Global Metal-air Battery Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 9. Global Metal-air Battery Consumption Value Market Share by Application in 2023

Figure 10. Electronic Devices (hearing aid etc) Examples

Figure 11. Energy Storage Examples

Figure 12. Electric Vehicles Examples

Figure 13. Others Examples

Figure 14. Global Metal-air Battery Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 15. Global Metal-air Battery Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 16. Global Metal-air Battery Sales Quantity (2019-2030) & (MWh)

Figure 17. Global Metal-air Battery Average Price (2019-2030) & (US\$/KWh)

Figure 18. Global Metal-air Battery Sales Quantity Market Share by Manufacturer in 2023

Figure 19. Global Metal-air Battery Consumption Value Market Share by Manufacturer in 2023

Figure 20. Producer Shipments of Metal-air Battery by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 21. Top 3 Metal-air Battery Manufacturer (Consumption Value) Market Share in 2023

Figure 22. Top 6 Metal-air Battery Manufacturer (Consumption Value) Market Share in 2023

Figure 23. Global Metal-air Battery Sales Quantity Market Share by Region (2019-2030)

Figure 24. Global Metal-air Battery Consumption Value Market Share by Region

(2019-2030)

Figure 25. North America Metal-air Battery Consumption Value (2019-2030) & (USD Million)

Figure 26. Europe Metal-air Battery Consumption Value (2019-2030) & (USD Million)

Figure 27. Asia-Pacific Metal-air Battery Consumption Value (2019-2030) & (USD Million)

Figure 28. South America Metal-air Battery Consumption Value (2019-2030) & (USD Million)

Figure 29. Middle East & Africa Metal-air Battery Consumption Value (2019-2030) & (USD Million)

Figure 30. Global Metal-air Battery Sales Quantity Market Share by Materials (2019-2030)

Figure 31. Global Metal-air Battery Consumption Value Market Share by Materials (2019-2030)

Figure 32. Global Metal-air Battery Average Price by Materials (2019-2030) & (US\$/KWh)

Figure 33. Global Metal-air Battery Sales Quantity Market Share by Application (2019-2030)

Figure 34. Global Metal-air Battery Consumption Value Market Share by Application (2019-2030)

Figure 35. Global Metal-air Battery Average Price by Application (2019-2030) & (US\$/KWh)

Figure 36. North America Metal-air Battery Sales Quantity Market Share by Materials (2019-2030)

Figure 37. North America Metal-air Battery Sales Quantity Market Share by Application (2019-2030)

Figure 38. North America Metal-air Battery Sales Quantity Market Share by Country (2019-2030)

Figure 39. North America Metal-air Battery Consumption Value Market Share by Country (2019-2030)

Figure 40. United States Metal-air Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Canada Metal-air Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Mexico Metal-air Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 43. Europe Metal-air Battery Sales Quantity Market Share by Materials (2019-2030)

Figure 44. Europe Metal-air Battery Sales Quantity Market Share by Application

(2019-2030)

Figure 45. Europe Metal-air Battery Sales Quantity Market Share by Country

(2019-2030)

Figure 46. Europe Metal-air Battery Consumption Value Market Share by Country

(2019-2030)

Figure 47. Germany Metal-air Battery Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 48. France Metal-air Battery Consumption Value and Growth Rate (2019-2030)

& (USD Million)

Figure 49. United Kingdom Metal-air Battery Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 50. Russia Metal-air Battery Consumption Value and Growth Rate (2019-2030) &

(USD Million)

Figure 51. Italy Metal-air Battery Consumption Value and Growth Rate (2019-2030) &

(USD Million)

Figure 52. Asia-Pacific Metal-air Battery Sales Quantity Market Share by Materials

(2019-2030)

Figure 53. Asia-Pacific Metal-air Battery Sales Quantity Market Share by Application

(2019-2030)

Figure 54. Asia-Pacific Metal-air Battery Sales Quantity Market Share by Region

(2019-2030)

Figure 55. Asia-Pacific Metal-air Battery Consumption Value Market Share by Region

(2019-2030)

Figure 56. China Metal-air Battery Consumption Value and Growth Rate (2019-2030) &

(USD Million)

Figure 57. Japan Metal-air Battery Consumption Value and Growth Rate (2019-2030) &

(USD Million)

Figure 58. Korea Metal-air Battery Consumption Value and Growth Rate (2019-2030) &

(USD Million)

Figure 59. India Metal-air Battery Consumption Value and Growth Rate (2019-2030) &

(USD Million)

Figure 60. Southeast Asia Metal-air Battery Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 61. Australia Metal-air Battery Consumption Value and Growth Rate (2019-2030)

& (USD Million)

Figure 62. South America Metal-air Battery Sales Quantity Market Share by Materials

(2019-2030)

Figure 63. South America Metal-air Battery Sales Quantity Market Share by Application

(2019-2030)



Figure 64. South America Metal-air Battery Sales Quantity Market Share by Country (2019-2030)

Figure 65. South America Metal-air Battery Consumption Value Market Share by Country (2019-2030)

Figure 66. Brazil Metal-air Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. Argentina Metal-air Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 68. Middle East & Africa Metal-air Battery Sales Quantity Market Share by Materials (2019-2030)

Figure 69. Middle East & Africa Metal-air Battery Sales Quantity Market Share by Application (2019-2030)

Figure 70. Middle East & Africa Metal-air Battery Sales Quantity Market Share by Region (2019-2030)

Figure 71. Middle East & Africa Metal-air Battery Consumption Value Market Share by Region (2019-2030)

Figure 72. Turkey Metal-air Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Egypt Metal-air Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Saudi Arabia Metal-air Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. South Africa Metal-air Battery Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. Metal-air Battery Market Drivers

Figure 77. Metal-air Battery Market Restraints

Figure 78. Metal-air Battery Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Metal-air Battery in 2023

Figure 81. Manufacturing Process Analysis of Metal-air Battery

Figure 82. Metal-air Battery Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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