

Metal-air Battery Market by Metal (Zinc, Lithium, Aluminum, Iron), Voltage, Type (Primary, Secondary), Application (Electric Vehicles, Military Electronics, Electronic Devices, Stationary Power) and Region - Global Forecast to 2027

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Abstracts

The metal-air battery market size is anticipated to grow from USD 498 million in 2022 to USD 993 million by 2027, at a CAGR of 14.8% from 2022 to 2027. Growing demand for high-energy density storage solutions and the significant shift towards zinc-air batteries in electronic devices are some of the major factors propelling the growth of this market.

“By type, secondary segment led metal-air battery market in 2021”

Secondary metal-air batteries are rechargeable batteries. They can be recharged electrically or mechanically (simply by replacing the metal anode in the battery). These batteries are more expensive compared to single-use batteries, but they have less environmental impact as they can be recycled instead of getting disposed of. These batteries are cost-effective over the long term as they have a higher discharge rate and higher energy density.

“By application, stationary power segment estimated to lead metal-air battery market from 2022 to 2027”

The energy industry has been investing in metal-air batteries preferably zinc-air and aluminum-air as a next-generation sustainable solution for grid energy storage. Energy storage systems have eventually evolved to assure energy transmission during the disruptions of grid services and blackouts. Metal-air batteries can be used as energy storage devices or as effective stations of energy transfer for renewable energy

producers. Due to their high scalability and energy density, metal-air batteries can be used in large-scale stationary energy storage applications preferably in combination with renewable wind or solar power systems to compensate for the intermittent nature of these renewable power sources. The potential for stationary energy storage to transform the electric power industry is anticipated to propel the development of emerging storage technologies that include metal-air batteries.

“Germany to dominate European metal-air battery market from 2022 to 2027”

Germany accounted for the largest share of the overall metal-air battery market in Europe in 2021. The market in this country is also expected to witness growth during the forecast period due to favorable government initiatives to develop metal-air battery technology and the need for clean, high-capacity, low-cost, green battery technologies for electric vehicles. Zinc-air batteries have received significant interest in recent years as one of the next-generation battery technologies that will probably replace current lithium-ion technologies. The increased demand for efficient, high-performance, eco-friendly, and safe energy storage solutions is driving the development of zinc-air battery technology.

Break-up of the profiles of primary participants:

By Company Type – Tier 1 – 25%, Tier 2 – 35%, and Tier 3 – 40%

By Designation – C-level Executives – 35%, Directors – 40%, and Others – 25%

By Region – North America - 30%, Europe – 20%, Asia Pacific – 45%, and RoW – 10%

Research Coverage:

The metal-air battery market has been segmented into metal, voltage, type, application, and region. The market has been studied for North America, Europe, Asia Pacific, and the Rest of the World (RoW).

Reasons to buy the report:

Illustrative segmentation, analysis, and forecast of the market based on metal, voltage, type, application, and region have been conducted to give an overall view of the metal-

air battery market.

A value chain analysis has been performed to provide in-depth insights into the metal-air battery market.

The key drivers, restraints, opportunities, and challenges pertaining to the metal-air battery market have been detailed in this report.

The report includes a detailed competitive landscape of the market, along with key players, as well as an in-depth analysis of their revenues.

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*Details on Business overview, Products/Services/Solutions offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

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