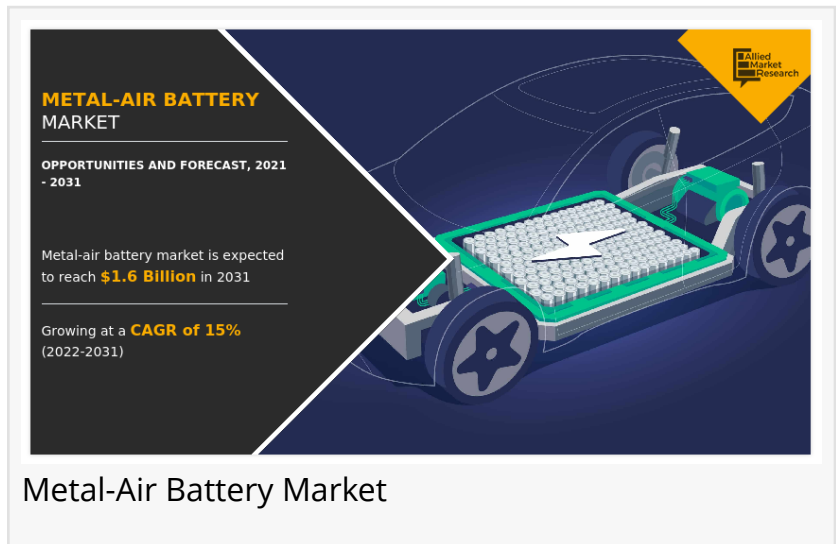


# Metal-Air Battery Market size is Expected to Grow \$1.6 Billion by 2031 | Registering a CAGR of 15%

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/EINPresswire.com/ --

Allied Market Research published a report on the [Metal-Air Battery Market](#) by Metal, Voltage, and Application: Global Opportunity Analysis and Industry Forecast, 2021-2031.

The global metal-air battery market was valued at \$424 million in 2021, and is projected to reach \$1.6 billion by 2031, growing at a CAGR of 15% from 2022 to 2031.



Metal-Air Battery Market

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The global metal-air battery market growth is driven by technological advancements such as 3D printing technology and laser processing for the manufacturing of metal-air batteries”

*David Correa*

Metal-air batteries generate power by using oxygen from the atmosphere. The benefit of this is that the oxygen does not need to be held inside the battery such as alkaline or Li-ion batteries. The positive electrode used in metal-air batteries is carbon-based and covered in some precious metals to react with oxygen. The electrode used is made up of metals such as lithium, zinc, magnesium, and aluminum. These batteries are sometimes referred to as fuel cells because the air is flowing through the cells present in the batteries.

The demand for energy has greatly increased owing to the ongoing expansion of the global economy. The conventional non-renewable energy sources on earth are scarce. Consequently, the creation of new energy technologies is crucial for a sustainable future. Ideal alternatives to

satisfy the requirement for energy storage is metal-air battery technology. The metal-air battery market growth appears to be the rise in demand for storage batteries with high energy densities.

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Competitive Analysis:

The competitive environment of the [metal-air battery industry](#) is further examined in the report. It includes details about the key players in the market's strengths, product portfolio, metal-air battery market share and size analysis, operational results, and market positioning. It comprises the actions taken by the players to grow and expand their presence through agreements and entering new business sectors. Mergers and acquisitions, joint ventures, and product launches are some of the other techniques used by players.

Some of the major key players of the metal-air battery industry include:

- Ionomr Innovations Inc.
- log 9 materials
- PolyPlus Battery Company
- Arotech Corporation
- Energizer Holdings Inc.
- ZAF Energy Systems
- ACTXE Limited
- Zinc8 Energy Solutions Inc.
- Phinergy
- Renata SA
- GP Batteries International Limited

A metal-air battery system is a form of energy storage that relies on an electrochemical reaction between a negative metal electrode and a positive air electrode to produce a charge. Due to their theoretically greater energy density than lithium-ion batteries, metal-air batteries are commonly promoted as the future of energy storage for uses, such as grid energy storage and in electric vehicles application. The metal-air battery is environmental friendly as compared to other traditional batteries, which is a major factor estimated to propel the metal-air battery market analysis in the upcoming years.

Most of the metals used in metal-air batteries are unsteady in water and they will react with the electrolyte to corrode the metal, which results in battery discharge. Also, the electrode carbonation process is caused in metal-air batteries since the cell is an open system it absorbs the CO<sub>2</sub> from the air resulting in crystallization of the electrode, clogging the pores, and decreasing in performance of the battery. These factors are anticipated to hamper the metal-air battery industry growth.

The use of metal-air batteries in electric vehicles is anticipated to gain traction. This is because metal-air batteries are cost-effective as well as they can meet the stringent emission regulations of the industry to avoid environmental hazards such as air pollution. The use of metal-air batteries in electric vehicles will help to eliminate the need for additional battery space in electric vehicles. Also, metal-air batteries are light, compact, and environmentally friendly.

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Key Benefits for Stakeholders:

- The report provides an exclusive and comprehensive analysis of the global metal-air battery market trends along with the metal-air battery market forecast
- The report elucidates the metal-air battery market opportunity along with key drivers, and restraints of the market. It is a compilation of detailed information, inputs from industry participants and industry experts across the value chain, and quantitative and qualitative assessment by industry analysts.
- Porter's five forces analysis helps analyze the potential of the buyers & suppliers and the competitive scenario of the market for strategy building
- The report entailing the metal-air battery market analysis maps the qualitative sway of various industry factors on market segments as well as geographies
- The data in this report aims at market dynamics, trends, and developments affecting the metal-air battery market growth

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David Correa

Allied Market Research

+1 800-792-5285

[help@alliedmarketresearch.com](mailto:help@alliedmarketresearch.com)

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