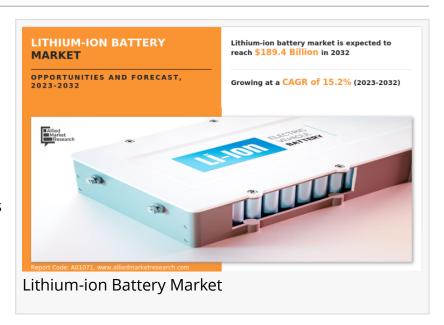


What's driving the Lithium-ion Battery Market Growth?

The lithium-ion battery market size is estimated to reach \$189.4 billion by 2032, growing at a CAGR of 15.2%

WILMINGTON, DELAWARE, UNITED STATES, September 29, 2023 /EINPresswire.com/ --

The <u>lithium-ion battery market</u> size was valued at \$46.2 billion in 2022, and lithium-ion battery industry is estimated to reach \$189.4 billion by 2032, growing at a CAGR of 15.2% from 2023 to 2032.



The application of lithium-ion batteries in a variety of industries has proven exceptional promise, such as in the aerospace sector, where Airbus Defense and Space has efficaciously examined High Altitude Pseudo-Satellite Aircraft (HAPAS) prototypes powered by using photo voltaic power

in the night.



The lithium-ion battery market is witnessing robust growth due to growing demand for consumer electronics, electric powered vehicles, and renewable electrical energy storage."

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Lithium-ion batteries are rechargeable power storage devices that consist of a couple of components, together with cathodes, anodes, electrolytes, separators, and different materials.

all through the day and lithium-ion batteries at some stage

Company profiled in this report based on Business overview, Financial data, Product landscape, Strategic outlook & SWOT analysis:

A123 Systems, LLC
Hitachi, Ltd.
CATL
LG Chem
Panasonic Corp.
Saft
Samsung SDI Co., Ltd.
Toshiba Corp.
GS Yuasa corporation
Li-ion battery technology continues to evolve, with ongoing research focused on increasing energy density, cycle life, safety, and sustainability. The adoption of Li-ion batteries has had a

The international focus on creating sustainable energy resources via renewable energy technology has led to increase in investments through governments and private institutions. This surge in demand for energy storage devices has pushed the growth of the lithium-ion battery market.

The rise in border disputes and terrorist activities worldwide has spurred the development of unmanned weapons and smart missiles, which closely rely on excessive electricity density batteries as power sources.

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profound impact on the way we use and store energy in modern society.

Lithium-ion batteries showcase a theoretical electricity density of about 2,600 Wh/kg, making them incredibly promising for high-energy-density battery applications. One excellent subject where they find use is in large-scale car vehicles, enabling efficient electric transportation.

Speedy innovation and utility of smart weapons, unmanned drones, and automobiles in the military enterprise contribute to the growth in demand for lithium-ion batteries. Lithium-ion batteries are a kind of rechargeable battery recognised for their excessive precise energy. The use of light-weight lithium and other substances in their development makes lithium-ion batteries rather light.

A lithium-ion (Li-ion) battery is a type of rechargeable battery that uses lithium ions to store and release electrical energy. Li-ion batteries have become the dominant technology for portable electronics, electric vehicles (EVs), and many other applications due to their high energy density, relatively low self-discharge rates, and ability to be recharged multiple times. They are used in a wide range of devices, from smartphones and laptops to power grids and renewable energy storage systems.

Key Finding of the Study

As per lithium-ion battery market analysis, on the basis of component, the cathode segment emerged as the global leader by acquiring nearly half of the lithium-ion battery market share in 2022 and is anticipated to continue this trend during the forecast period.

On the basis of capacity, the 3,000- 10,000 mAh segment emerged as the largest market share in 2022, which accounts for more than two-fifths of the lithium-ion battery market share.

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On the basis of application, the automotive segment emerged as the largest market share in 2022 which accounts for more than half of the lithium-ion battery market share, and is anticipated to continue this trend during the forecast period.

On the basis of region, Asia-Pacific is the major consumer of lithium-ion batteries among other regions. It accounted for more than two-fifths of the global market share in 2022.

Read More:

<u>Lithium-iron Phosphate Batteries Market</u> by Type (Portable and Stationary), Capacity (0-16, 250 mAh, 16, 251-50, 000 mAh, 50, 001-100, 000 mAh, and 100, 001-540, 000 mAh), and Application (Automotive, Power Generation, Industrial, and Others): Global Opportunity Analysis and Industry Forecast, 2021-2030

<u>Lithium-Ion Battery Recycling Market</u> by Battery chemistry (Lithium-Iron Phosphate, Lithium-Manganese Oxide, Lithium-Nickel-Cobalt-Aluminum Oxide, Lithium-Nickel-Manganese-Cobalt, and Lithium-Titanate Oxide), Source (Electric Vehicles, Electronics, Power Tools, and Others), Recycling Process (Hydrometallurgical Process, Physical/Mechanical Process, and Pyrometallurgy Process), and EndUse (Automotive and Non-Automotive): Global Opportunity Analysis and Industry Forecast, 2021-2030

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