

Dual-ion Batteries Market Estimated to Experience a Hike in Growth By 2031

Dual-ion Batteries Market 2021 Global Players Are Curtiss – Faradion Limited, Tiamat Energy, Prieto Battery, etc

PORTLAND, OREGON, UNITED STATE, July 10, 2023 /EINPresswire.com/ -- The [dual-ion batteries market](#) size was valued at \$0.3 billion in 2021, and the dual-ion batteries industry is estimated to reach \$1.6 billion by 2031, growing at a CAGR of 16.4% from 2022 to 2031.

A dual-ion battery is a type of

rechargeable battery that utilizes two

different types of ions, typically metal cations and organic anions, to store and release energy.

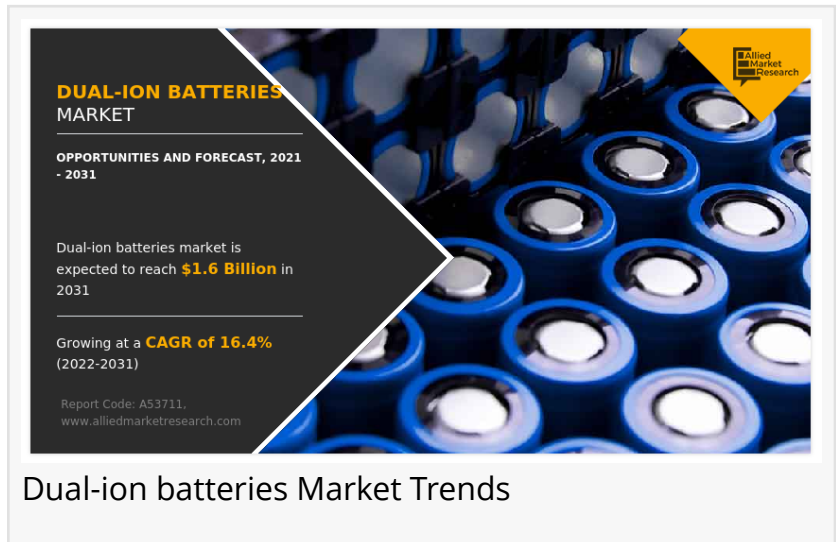
The battery operates by using a cathode and an anode, each with a different type of ion, and an electrolyte that allows for the movement of both ions between the electrodes. This design provides several advantages over conventional lithium-ion batteries, including higher energy density, longer cycle life, and improved safety. Dual-ion batteries are being developed for a variety of applications, including electric vehicles, portable electronics, and renewable energy storage.

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There are several types of dual-ion batteries, including metal-organic dual-ion batteries, metal-metal dual-ion batteries, sodium-ion batteries, zinc-ion batteries, and others such as aluminum-ion and magnesium-ion batteries. Metal-organic dual-ion batteries use a metal cation and an organic anion, while metal-metal dual-ion batteries use two different metals as cations. Sodium-ion and zinc-ion batteries use sodium and zinc as their respective cations. Each type of dual-ion battery has unique properties and advantages, such as high energy density, low cost, and abundance of raw materials.

The dual-ion batteries market trends is expected to grow in the coming years, driven by several key factors. Driving factors that are expected to have a positive impact on the dual-ion batteries



market are the increasing demand for electric vehicles and the growing need for renewable energy storage. As governments around the world aim to reduce carbon emissions and combat climate change, the demand for electric vehicles is expected to increase significantly.

Dual-ion batteries offer higher energy density and longer cycle life, making them a promising option for electric vehicle batteries. Additionally, the shift towards renewable energy sources such as solar and wind power creates a need for cost-effective and efficient energy storage solutions, and dual-ion batteries are being developed to meet this demand. These factors are expected to drive the dual-ion batteries market growth of the in the coming years.

The dual-ion batteries market opportunities is expected to witness significant growth due to several factors. Firstly, the increasing demand for electric vehicles and renewable energy storage systems is expected to drive the demand for high-performance and safe energy storage solutions, such as dual-ion batteries. Secondly, the need for environmentally friendly and sustainable energy solutions is expected to boost the development and adoption of dual-ion batteries due to their low cost and use of abundant raw materials. Thirdly, advancements in materials science and technology are expected to further enhance the performance and scalability of dual-ion batteries, opening new opportunities for various applications.

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The growth of the dual-ion batteries market may be restrained by several factors, such as high manufacturing costs, limited availability of raw materials, and the new technology's lack of standardization. Dual-ion batteries are still in the early stages of development, and their commercialization and large-scale production face challenges in achieving high energy density, long cycle life, and improved safety. Additionally, the existing infrastructure for lithium-ion battery production and usage may limit the adoption of dual-ion batteries. The cost and performance of dual-ion batteries may also be affected by the competition from other emerging battery technologies.

The global dual-ion batteries market forecast is segmented into type, application, and region. Based on type, the market is divided into metal-organic, metal-metal, sodium-ion, zinc-ion, and others. By application, it is divided into electric vehicles, portable electronics, renewable energy storage, medical devices, and others. By region, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

By type, it is divided into metal-organic, metal-metal, sodium-ion, zinc-ion, and others. The sodium-ion segment accounted for the largest revenue share in the global dual-ion batteries market in 2021. Sodium-ion dual-ion batteries have several potential advantages over conventional lithium-ion batteries, including lower cost, higher safety, and more abundant raw materials (sodium is more abundant than lithium). However, they also have some disadvantages, such as lower energy density and less developed technology.

By application, it is divided into electric vehicles, portable electronics, renewable energy, medical devices, and others. The portable electronics segment accounted for the largest revenue share in the global dual-ion batteries market in 2021. The rise of portable electronics has created a growing demand for high-performance, long-lasting batteries that can power these devices. Dual-ion batteries, which use two types of ions to store energy, have the potential to address some of the limitations of traditional lithium-ion batteries, making them an attractive option for use in portable electronics.

Region-wise, Europe accounted for the largest dual-ion batteries market share and is projected to grow at a CAGR of 16.1% during the forecast period. Dual-ion batteries in Europe are still relatively small, and there are few companies actively marketing or producing them. However, there is growing interest in technology, particularly in the areas of electric vehicles, grid storage, and portable electronics.

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Competitive Landscape

Key players in the dual-ion batteries industry are Faradion Limited, Tiamat Energy, Prieto Battery, Excellatron, Ionic Materials, Solid Energy Systems, Qing Tao Energy Development Co., Ltd., Sion Power, Custom cells Itzehoe GmbH, and Jenax. These players have adopted various strategies to gain a higher share or retain leading positions in the market.

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