

Graphene Battery Market to Grow at 25.09% CAGR, Reaching USD 1120.07 Million by 2032 | SNS Insider

The graphene battery market advances with rising EV demand, fast-charging technology, and sustainability trends, despite high production costs.

AUSTIN, TX, UNITED STATES, March 3, 2025 /EINPresswire.com/ -- The SNS Insider report indicates that the [Graphene Battery Market](#) Size was estimated at USD 149.35 Million in 2023 and is expected to arrive at USD 1120.07 Million by 2032 with a growing CAGR of 25.09% over the forecast

period 2024-2032. The Graphene Battery Market is experiencing significant growth due to the increasing demand for high-performance energy storage solutions in electric vehicles (EVs) and consumer electronics, propelled by advancements in graphene-enhanced battery technologies.

Get a Sample Report of Graphene Battery Market @ <https://www.snsinsider.com/sample-request/5841>

Key Players:

- Graphenea Group (Graphene Oxide, Reduced Graphene Oxide)
- Huawei Technologies Co., Ltd. (Graphene-enhanced Lithium-ion Batteries)
- XG Sciences, Inc. (XG Leaf Graphene Nanoplatelets for Batteries)
- Targray Group (Graphene Battery Materials, Conductive Additives)
- Nanotech Energy (Graphene Supercapacitors, Graphene Batteries)
- Vorbeck Materials Corp. (Vor-x Graphene Conductive Inks, Energy Storage Solutions)
- Hybrid Kinetic Group Ltd. (Graphene-based EV Batteries)
- Graphene NanoChem (Graphene-based Energy Storage Materials)
- Log 9 Materials Scientific Private Limited (Rapid Charging Graphene Batteries, Aluminum Fuel Cells)
- Cabot Corporation (Graphene-based Conductive Additives for Lithium-ion Batteries)



- Samsung SDI (Next-Gen Graphene-enhanced Li-ion Batteries)
- Grabat Graphenano Energy (Graphenano Grabat Batteries)
- Global Graphene Group (Graphene-enhanced Li-ion Batteries, Nanocarbons)
- Nanotek Instruments, Inc. (Graphene-based Supercapacitors, Hybrid Energy Storage)
- ZEN Graphene Solutions Ltd. (Graphene-based Battery Anodes, Conductive Coatings)
- Talga Group Ltd. (Talnode-C Graphene Battery Anode Materials)
- First Graphene Ltd. (PureGRAPH Graphene Additives for Batteries)
- Skeleton Technologies (Graphene-based Supercapacitors)
- Real Graphene USA (Graphene Power Banks, Fast-charging Graphene Batteries)
- Northern Graphite Corporation (Graphene-based Anode Materials for Lithium-ion Batteries)

Graphene Battery Market: Lithium-Ion Segment Leads with 52% Share in 2023, Automotive Sector Dominates Applications

By Type: The Lithium-ion Graphene Battery segment held the largest market share, accounting for over 52% in 2023. This dominance can be ascribed to the proliferation of lithium-ion technology across several sectors such as electric vehicles (EVs), consumer electronics, and energy storage systems. Graphene inclusion increases conductivity, charge cycles and decreases charge time for battery, therefore improves battery performance. Other types of graphene batteries like supercapacitors and lead-acid graphene batteries are also becoming popular because of their high energy density and durability. Nonetheless, lithium-ion graphene batteries remain the reigning champions in terms of energy density, lightness, and the need for sustainable energy alternatives in industries such as electric vehicles (EVs) and personal electronics.

By Application: The Automotive segment dominated the graphene battery market, holding over 32% share in 2023. The growing implementation of electric vehicles (EVs) and of hybrid electric vehicles (HEVs) is a major factor, as graphene-infused batteries provide increased energy density, rapid-charging ability, and longer life. Automobile industry is developing graphene-based energy storage materials to improve the vehicle performance. Research and development in graphene battery technology has been focused on overcoming obstacles that drive range anxiety and charging infrastructure. Although the automotive sector is leading the way, consumer electronics, industrial equipment, and aerospace are other applications that are seeing rising demand for graphene batteries, further expanding the growth potential of the market across multiple industries.

Asia-Pacific Leads Graphene Battery Market with 44% Share in 2023, Europe Sees Rapid Growth

The Asia-Pacific region led the graphene battery market in 2023, capturing over 44% of the global share. That dominance is being driven by the growing demand for electric vehicles (EVs), high-powered consumer electronics, and renewable energy storage systems. China, Japan, and South Korea are already investing heavily in graphene, battery research, and large-volume production of batteries. With a strong local supply chain, several major battery makers, and supportive

government policies related to EV adoption and sustainable energy technologies, the region has much to offer. Moreover, the development of energy storage systems and increasing consumer awareness about optimizing battery technologies are also propelling the market growth. Both the growing call for carbon neutrality and environmentally friendly options are contributing to the demand for graphene batteries.

Buy Full Research Report on Graphene Battery Market 2024-2032 @
<https://www.snsinsider.com/checkout/5841>

Europe is experiencing significant growth in the graphene battery market, due to its emphasis on sustainable and clean energy transition. Exporting demand for next-generation battery technologies Due to government subsidies for electric vehicle (EV) adoption that kick in in 2022, strict carbon emissions regulations and utility incentives to get customers to “electrify everything,” global demand for advanced battery technologies will be rapidly increasing. Graphene batteries have also seen an increase in popularity for battery applications due to having a higher energy density, faster charge rates, and longer life cycle compared to traditional batteries. Major vehicle manufacturers and research organizations are investing large amounts into developing graphene batteries to improve their performance capacity and efficiency. Additionally, Europe’s increasing reliance on renewable energy sources, such as solar and wind power, is driving the need for high-performance energy storage solutions. These factors collectively contribute to the rapid expansion of the graphene battery market across the region.

Recent Development

- In January 2024: iPowe Batteries Pvt Ltd made history by becoming the first Indian company to introduce graphene series lead-acid batteries to the country. These batteries are designed to offer improved performance, longer lifespan, and enhanced energy efficiency, catering to the growing demand for advanced energy storage solutions in India.

About Us:

SNS Insider is a global leader in market research and consulting, shaping the future of the industry. Our mission is to empower clients with the insights they need to thrive in dynamic environments. Utilizing advanced methodologies such as surveys, video interviews, and focus groups, we provide up-to-date, accurate market intelligence and consumer insights, ensuring you make confident, informed decisions.

Jagney Dave
SNS Insider Pvt. Ltd
315 636 4242

[email us here](#)

Visit us on social media:

[Facebook](#)

X

LinkedIn

Instagram

This press release can be viewed online at: <https://www.einpresswire.com/article/790544441>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.