

Graphene Market Size Expected to Boost USD 2,495.4 Million at a CAGR of 18.5% by 2028 | Reports and Data

Increasing Application Of Graphene In Electronics Industry & Growing Demand To Improve Automotive Fuel Efficiency Are Key Factors Driving Market Revenue Growth

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/EINPresswire.com/ -- The global

[Graphene Market](#) size is expected to

reach USD 2,495.4 Million in 2028 and register a revenue CAGR of 18.5% over the forecast period, according to the latest report by Reports and Data. Factors such as increasing application in products, such as sensors, semiconductors, batteries, electronics displays, and medicine among others market revenue growth to a significant extent. Graphene has characteristics such

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as high mechanical robustness, lubricating properties, barrier properties to fluids, electrical conductivity, and thermal conductivity, which offer a potential to substitute existing materials in a variety of applications and these are essential and required in a number of existing as well as expanding areas of application.

Increasing application of graphene in energy storage devices is a key factor fueling market revenue growth. Graphene delivers increased charging cycles, energy storage capacity and deliver quicker charging and

discharging advantages in batteries and supercapacitors based on lithium-ion. Moreover, graphene is used to increase not only the capacity and charge rate of batteries but also the durability. At present, materials such as lithium are used to store large amounts of energy, and the potential amount lessens on every charge or recharge due to electrode wear. With the application of graphene tin oxide as an anode in lithium ion batteries, for instance, batteries last much longer with approximately no reduction in storage capacity, effectively making technology like electric vehicles a much more feasible transport solution in the upcoming years.



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Top Leading Players: CVD Equipment Corporation, Graphenea, Graphene NanoChem PLC, 2D Carbon Graphene Material Co. Ltd., Haydale Graphene Industries PLC, NanoXplore Inc., Directa Plus SPA, Ningbo Moxi Technology Co. Ltd., Global Graphene Group, and Grafoid Inc.

Key Companies in the market include:

By product type, graphene nanoplatelets segment accounted for a significant revenue share in 2020, attributed to the extensive application of graphene nanoparticles in polymeric materials like composites, paints and coatings, rubber, thermoplastic elastomers, and adhesives owing to the high electrical conductivity, better thermal conductivity, strength, and enhanced barrier characteristics.

By industry vertical, electronics segment contributed to largest revenue share in 2020 and is expected to maintain its dominance among other industry verticals throughout the forecast period. This is owing to increasing demand for graphene from telecommunication systems, optoelectronics, and defense electronics systems. Electronics sector is anticipated to observe significant growth in emerging markets like China, India, Malaysia, and Taiwan due to the increase in manufacturing activities in these countries and growing trend of digital transformation.

By application, composites segment is expected to grow at a rapid rate over forecast period. Graphene-based composites can be used to weatherproof residential and commercial buildings or to produce food packaging materials to prevent transfer of water and oxygen that can spoil food. Also, these composites hold immense potential to be used to manufacture sporting goods used in tennis, cycling, skiing, and even sports car in the near future.

Market in North America accounted for largest revenue share in 2020, attributed to presence of several leading players in the region with intense research and development capabilities, which is expected to develop new growth opportunities in the forecast period. The U.S. is the largest consumer of graphene in across the globe. Wide ranging patent activities are adopted by market players in the US with several industry associations to develop graphene for use in various potential applications.

Report Overview:

The materials and chemicals industry revenue has rapidly expanded over the recent past. The global Graphene market is expected to register robust revenue growth during the forecast period, 2021-2028. Revenue growth of the global market is significantly driven by factors such as high demand for raw materials and chemicals across various sectors including food and beverages, paper pulp, chemicals and medical, biotechnology and pharmaceutical and rapid

urbanization and industrial developments worldwide. In addition, increasing per capita income, rising investments by public and private organizations and rising demand for eco-friendly and sustainable products due to rising awareness about carbon emissions are expected to boost global market growth during the forecast period.

To know more about the report <https://www.reportsanddata.com/report-detail/graphene-market>

Key Regional Markets Covered in the Report:

North America (U.S.A., Canada, Mexico)

Europe (Italy, U.K., Germany, France, Rest of Europe)

Asia Pacific (India, China, Japan, South Korea, Australia, Rest of Asia Pacific)

Latin America (Chile, Brazil, Argentina, Peru, Rest of Latin America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of Middle East & Africa)

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Key questions covered in the global Graphene market report:

What is the expected market size of the global Graphene market during the forecast period?

What factors are expected to hamper global Graphene market growth over the forecast period?

What key factors are expected to drive global revenue growth between 2022 and 2028?

Which application segment is expected to dominate other application segments over the forecast period?

Which region is expected to dominate in terms of revenue during the forecast period?

What are the key outcomes of Porter's Five Forces analysis and SWOT analysis?

Which leading players are operating in the global Graphene market?

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