Graphene Market by Type (Graphene Oxide (GO), Graphene Nanoplatelets (GNP), and Others), by Application (Electronics, Composites, Energy, Coatings, Sensors, Catalyst and Others), by Region - Global Trends and Forecasts to 2020

Description: Graphene, the world's first 2-D carbon material, also known as the “wonder material” is ideal for many applications in various end-use industries. Graphene is an efficient conductor, fire resistant, incredibly flexible yet 200 times stronger than steel and an ultra-light material.

North America is the largest growing market for graphene in 2014. The demand of graphene from its various applications such as electronics and polymer composite materials is continuously showing an upward trend. The U.S. is the leading market for graphene in the world. The growth is mainly due to the extensive patent activities adopted by major established players along with various cross-industry collaborations for the development of graphene and its potential applications.

Among the types of graphene, Graphene Oxide (GO) dominated the market in 2014. The low cost, tensile strength, high elasticity, efficient conductivity, transparency, and ease of production make GO a preferred graphene type among major graphene manufacturers and applications. These applications include medical, bio-sensing and disease detection, polymer materials, electrode materials in batteries, and nanofiltration membranes, among others.

Among various applications, the electronics segment dominated the graphene market in 2014 followed by composites and other applications. Other applications of graphene include energy, coatings, sensors, catalysts, and so on. The increasing demand for semi-transparent, flexible, lightweight, and long life span Li-ion batteries and electronic products are the key factors owing the growth of graphene in the electronics market.

This study aims to estimate the market size of graphene in 2015, in terms of volume and value, and project its demand by 2020. This market research study provides a detailed qualitative and quantitative analysis of the global graphene market. It also provides a comprehensive review of the major drivers, restraints, opportunities, and challenges in the market. The market is segmented and projected by regions such as North America, Asia-Pacific, Europe, and RoW. Each region is further segmented by its key countries.

Different secondary sources such as company websites, encyclopedia, directories, and databases have been used to identify and collect information that is useful for this extensive commercial study of the global graphene market. The primary sources, which include experts from related industries, have been interviewed to verify and collect critical information as well as to assess the future prospects of the market.

The report also includes profiles of various market players, such as, CVD Equipment Corporation (U.S.), Graphenea SA (Spain), Grafoi Inc. (Canada), Graphene NanoChem Plc (Malaysia), Haydale Graphene Industries Plc (U.K.), and XG Sciences (U.S.), 2D Carbon Tech Inc. Ltd. (China), Vorbeck Materials (U.S.), Thomas Swan & Co., Ltd. (U.K.), and Group NanoXplore Inc. (Canada), among others.

Scope of the Report:

This research report categorizes the market for graphene based on type, application, and region and forecasts revenue growth and analysis of trends in each of the submarkets.

On the Basis of Type: The graphene market is segmented on the basis of type, such as, graphene oxide, graphene nanoplatelets, and others. Each type is further described in detail in the report with value and volume forecasts till 2020.

On the Basis of Application: The graphene market is segmented on the basis of applications that include electronics, composites, energy, coatings, sensors, catalysts, and others. Each application segment is further described in detail in the report with value and volume forecasts till 2020.
On the Basis of Region: The graphene market is segmented by region as North America, Asia-Pacific, Europe, and RoW. Each region is further segmented by key countries such as the U.S., Canada, Mexico, China, Japan, India, Germany, U.K., Spain, France, Brazil, and Rest of South America.

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