

Global Graphene and 2-D Materials Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Graphene and 2-D Materials market size was valued at USD 10 million in 2023 and is forecast to a readjusted size of USD 61 million by 2030 with a CAGR of 29.0% during review period.

Graphene is a sheet of carbon atoms bound together with double electron bonds (called sp² bonds) in a thin film only one atom thick. The atoms in graphene are arranged in a honeycomb-style lattice pattern. Graphene is the basic structural element of several forms of carbon, including graphite, carbon nanotubes, and fullerenes. Graphene is one million times thinner than paper, nearly transparent, and believed to be the strongest material in the world.

The industry is highly concentration. The leading players in graphene market are XG Science, Angstrom Materials, Vorbeck Materials, Huagao, Sixth Element, with about 68% market shares.

The Global Info Research report includes an overview of the development of the Graphene and 2-D Materials industry chain, the market status of Ink & Coatings (1 to 20 Nanometers, 1 to 50 Microns), Composite Materials (1 to 20 Nanometers, 1 to 50 Microns), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Graphene and 2-D Materials.

Regionally, the report analyzes the Graphene and 2-D Materials markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads

the global Graphene and 2-D Materials market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Graphene and 2-D Materials market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Graphene and 2-D Materials industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K MT), revenue generated, and market share of different by Particle Size (e.g., 1 to 20 Nanometers, 1 to 50 Microns).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Graphene and 2-D Materials market.

Regional Analysis: The report involves examining the Graphene and 2-D Materials market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Graphene and 2-D Materials market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Graphene and 2-D Materials:

Company Analysis: Report covers individual Graphene and 2-D Materials manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and

attitudes towards Graphene and 2-D Materials This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Ink & Coatings, Composite Materials).

Technology Analysis: Report covers specific technologies relevant to Graphene and 2-D Materials. It assesses the current state, advancements, and potential future developments in Graphene and 2-D Materials areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Graphene and 2-D Materials market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Graphene and 2-D Materials market is split by Particle Size and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Particle Size, and by Application in terms of volume and value.

Market segment by Particle Size

1 to 20 Nanometers

1 to 50 Microns

Market segment by Application

Ink & Coatings

Composite Materials

Electronic Materials

Research Institute

Major players covered

XG Science

Angstrom Materials

Vorbeck Materials

Applied Graphene Materials

NanoXplore

Huagao

Cambridge Nanosystems

Grafen

Sixth Element

Knano

Morsh

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Graphene and 2-D Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Graphene and 2-D Materials, with price, sales, revenue and global market share of Graphene and 2-D Materials from 2019 to 2024.

Chapter 3, the Graphene and 2-D Materials competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Graphene and 2-D Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Particle Size and application, with sales market share and growth rate by particle size, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Graphene and 2-D Materials market forecast, by regions, particle size and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Graphene and 2-D Materials.

Chapter 14 and 15, to describe Graphene and 2-D Materials sales channel, distributors, customers, research findings and conclusion.

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