

Global Graphene Market Size Study & Forecast, By Type (Mono-layer & Bi-layer Graphene, Few Layer Graphene (FLG)., Graphene Oxide (GO), Graphene Nano Platelets (GNP)), By Application (Radio Frequency Identification (RFID), Composites, Sensors, Research & Development, Energy storage, Functional ink, Polymer additives, Tire, Coatings, Others), and Regional Analysis, 2023-2030

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Abstracts

Global Graphene Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Graphene, which is a single-atom-thick layer of carbon atoms arranged in a honeycomb-like nanostructure, is catalyzing major progress in the aerospace industry. Its application in the production of various coatings and composite materials for drones, helicopters, airplanes, and spacecraft is transforming the field. By enhancing mechanical properties, graphene enables the production of thinner materials while concurrently reducing overall weight, thereby contributing to the optimization of aerospace technologies. Moreover, the growing demand in the electronic industry, increasing R&D activities, and growing demand from the aerospace and automotive industries are anticipated to create a lucrative demand for the market during the forecast period 2023-2030.

Additionally, with the increasing demand for smaller, faster, and more efficient electronic devices, graphene's properties make it an attractive choice of material for use in transistors, sensors, displays, and other electronic components. According to the India Brand Equity Foundation, the manufacturing of electronic hardware in the country

surged to USD 60.13 billion in 2018. Projections indicate that by 2024, the demand for electronic hardware in India is anticipated to reach USD 400 billion. Also, the National Investment Promotion and Facilitation Agency of the Indian government further notes that the domestic market for electronic gadgets is poised to surpass USD 300 billion by 2026. As a result, the growing electronic demand is anticipated to support the market growth. Moreover, the cohesive government support and funding, and increasing biomedical applications are anticipated to create a lucrative opportunity for the market. However, the negative environmental impact and difficulty in mass production stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Graphene Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing demand for lightweight and high-performance materials, growing investments in clean energy technologies, and presence of key market players. Whereas, the Asia Pacific is expected to grow with the fastest growth rate during the forecast period, owing to factors such as growing demand from end-use industries, and advancements in manufacturing techniques in the region.

Major market players included in this report are:

Graphenea S.A.

XG Sciences

CVD Equipment Corporation

Bluestone Global Tech

Vorbeck Materials

G6 Materials

Graphene Nanochem Plc

Haydale Limited

Nanotek Instruments, Inc.

Acs Material Llc

Recent Developments in the Market:

In February 2023, Global Graphene Group disclosed that Honeycomb Battery Company, its subsidiary specializing in advanced battery technologies, has entered into a business combination agreement with Nubia Brand International Corp. This agreement aims to facilitate the joint development of battery materials. It is anticipated that Honeycomb Battery Company will leverage graphene supplied by Global Graphene Group for this collaborative effort. As a result, these collaborative efforts signify a concerted push towards leveraging graphene's unique properties to address the evolving needs of the battery industry, thereby fostering growth and innovation in the Graphene Market.

Global Graphene Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Mono-layer & Bi-layer Graphene

Few Layer Graphene (FLG)

Graphene Oxide (GO)

Graphene Nano Platelets (GNP)

By Application:

Radio Frequency Identification (RFID)

Composites

Sensors

Research & Development

Energy storage

Functional ink

Polymer additives

Tire

Coatings

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Graphene Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Graphene Market, by Type, 2020-2030 (USD Billion)
 - 1.2.3. Graphene Market, by Application, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL GRAPHENE MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL GRAPHENE MARKET DYNAMICS

- 3.1. Graphene Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Growing Demand in Electronic Industry
 - 3.1.1.2. Increasing R&D Activities
 - 3.1.1.3. Growing Demand from Aerospace and Automotive Industries
 - 3.1.2. Market Challenges
 - 3.1.2.1. Negative Environmental Impact
 - 3.1.2.2. Difficulty in Mass Production
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Cohesive Government Support and Funding
 - 3.1.3.2. Increasing Biomedical Applications

CHAPTER 4. GLOBAL GRAPHENE MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL GRAPHENE MARKET, BY TYPE

- 5.1. Market Snapshot
- 5.2. Global Graphene Market by Type, Performance - Potential Analysis
- 5.3. Global Graphene Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Graphene Market, Sub Segment Analysis
 - 5.4.1. Mono-layer & Bi-layer Graphene
 - 5.4.2. Few Layer Graphene (FLG)
 - 5.4.3. Graphene Oxide (GO)
 - 5.4.4. Graphene Nano Platelets (GNP)

CHAPTER 6. GLOBAL GRAPHENE MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global Graphene Market by Application, Performance - Potential Analysis
- 6.3. Global Graphene Market Estimates & Forecasts by Application 2020-2030 (USD Billion)
- 6.4. Graphene Market, Sub Segment Analysis
 - 6.4.1. Radio Frequency Identification (RFID)

- 6.4.2. Composites
- 6.4.3. Sensors
- 6.4.4. Research & Development
- 6.4.5. Energy storage
- 6.4.6. Functional ink
- 6.4.7. Polymer additives
- 6.4.8. Tire
- 6.4.9. Coatings
- 6.4.10. Others

CHAPTER 7. GLOBAL GRAPHENE MARKET, REGIONAL ANALYSIS

- 7.1. Top Leading Countries
- 7.2. Top Emerging Countries
- 7.3. Graphene Market, Regional Market Snapshot
- 7.4. North America Graphene Market
 - 7.4.1. U.S. Graphene Market
 - 7.4.1.1. Type breakdown estimates & forecasts, 2020-2030
 - 7.4.1.2. Application breakdown estimates & forecasts, 2020-2030
 - 7.4.2. Canada Graphene Market
- 7.5. Europe Graphene Market Snapshot
 - 7.5.1. U.K. Graphene Market
 - 7.5.2. Germany Graphene Market
 - 7.5.3. France Graphene Market
 - 7.5.4. Spain Graphene Market
 - 7.5.5. Italy Graphene Market
 - 7.5.6. Rest of Europe Graphene Market
- 7.6. Asia-Pacific Graphene Market Snapshot
 - 7.6.1. China Graphene Market
 - 7.6.2. India Graphene Market
 - 7.6.3. Japan Graphene Market
 - 7.6.4. Australia Graphene Market
 - 7.6.5. South Korea Graphene Market
 - 7.6.6. Rest of Asia Pacific Graphene Market
- 7.7. Latin America Graphene Market Snapshot
 - 7.7.1. Brazil Graphene Market
 - 7.7.2. Mexico Graphene Market
- 7.8. Middle East & Africa Graphene Market
 - 7.8.1. Saudi Arabia Graphene Market

7.8.2. South Africa Graphene Market

7.8.3. Rest of Middle East & Africa Graphene Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Key Company SWOT Analysis

8.1.1. Company

8.1.2. Company

8.1.3. Company

8.2. Top Market Strategies

8.3. Company Profiles

8.3.1. Graphenea S.A.

8.3.1.1. Key Information

8.3.1.2. Overview

8.3.1.3. Financial (Subject to Data Availability)

8.3.1.4. Product Summary

8.3.1.5. Recent Developments

8.3.2. XG Sciences

8.3.3. CVD Equipment Corporation

8.3.4. Bluestone Global Tech

8.3.5. Vorbeck Materials

8.3.6. G6 Materials

8.3.7. Graphene Nanochem Plc

8.3.8. Haydale Limited

8.3.9. Nanotek Instruments, Inc.

8.3.10. Acs Material Llc

CHAPTER 9. RESEARCH PROCESS

9.1. Research Process

9.1.1. Data Mining

9.1.2. Analysis

9.1.3. Market Estimation

9.1.4. Validation

9.1.5. Publishing

9.2. Research Attributes

9.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Graphene Market, report scope

TABLE 2. Global Graphene Market estimates & forecasts by Region 2020-2030 (USD Billion)

TABLE 3. Global Graphene Market estimates & forecasts by Type 2020-2030 (USD Billion)

TABLE 4. Global Graphene Market estimates & forecasts by Application 2020-2030 (USD Billion)

TABLE 5. Global Graphene Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 6. Global Graphene Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 7. Global Graphene Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 8. Global Graphene Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Graphene Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Graphene Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Graphene Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Graphene Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Graphene Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. Global Graphene Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. U.S. Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 16. U.S. Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 17. U.S. Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 18. Canada Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 19. Canada Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 20. Canada Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. UK Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 22. UK Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. UK Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. Germany Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 25. Germany Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. Germany Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. France Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 28. France Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. France Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. Italy Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 31. Italy Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Italy Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Spain Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 34. Spain Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Spain Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. RoE Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 37. RoE Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. RoE Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 39. China Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 40. China Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. China Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. India Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. India Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

Billion)

TABLE 44. India Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. Japan Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. Japan Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. South Korea Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. South Korea Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. Australia Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. Australia Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. RoAPAC Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. RoAPAC Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. Brazil Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. Brazil Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. Brazil Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Mexico Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 61. Mexico Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. Mexico Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. RoLA Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 64. RoLA Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. RoLA Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. Saudi Arabia Graphene Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 67. South Africa Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. RoMEA Graphene Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. List of secondary sources, used in the study of Global Graphene Market

TABLE 70. List of primary sources, used in the study of Global Graphene Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Graphene Market, research methodology
 - FIG 2. Global Graphene Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Graphene Market, key trends 2022
 - FIG 5. Global Graphene Market, growth prospects 2023-2030
 - FIG 6. Global Graphene Market, porters 5 force model
 - FIG 7. Global Graphene Market, pest analysis
 - FIG 8. Global Graphene Market, value chain analysis
 - FIG 9. Global Graphene Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Graphene Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Graphene Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Graphene Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Graphene Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Graphene Market, regional snapshot 2020 & 2030
 - FIG 15. North America Graphene Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Graphene Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia Pacific Graphene Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Graphene Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Graphene Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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