

Global Graphene-enhanced Composites Market: Focus on Composite Type (Graphene-enhanced Polymer Composite, Graphene-enhanced Ceramic Composite, and Graphene-enhanced Metal Composite), Graphene Type, and Application-Analysis & Forecast, 2018-2023

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Abstracts

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Graphene-enhanced composites have enabled a myriad of applications from lightweight products to high capacity batteries and stronger materials. Graphene is the major driving force leading to the development of graphene-enhanced composites. The technological advancement for the mass production of graphene has positively impacted the growth of the graphene-enhanced composites. The combination of graphene with various matrices is so attractive that it not only reinforces the matrix but also introduces new mechanical and electronic properties to the material. Graphene is frequently reinforced with polymers such as thermoplastics and epoxies, among others.

Graphene-enhanced polymer composites, graphene-enhanced metal composites, and graphene-enhanced ceramic composites are some of the graphene-enhanced composites widely used across various end user applications. Graphene oxide and graphene nanoplatelets are the two forms of graphene being used to produce composites. Graphene-enhanced polymer composites are most widely used across various applications as polymers facilitates easy fabrication process with graphene in comparison to the other types. Along with this, polymer requires graphene in low amounts as compared to metals and ceramic. Haydale, XG Sciences, Inc., and Vorbeck Materials are some of the graphene-enhanced polymer composites manufacturers in

the global graphene-enhanced composites market.

The global graphene-enhanced composites market is expected to grow at a CAGR of 28.3% and 30.6% between 2018 and 2023 in terms of value and volume, respectively.

The report is a compilation of the different segments of the global graphene-enhanced composites market, including market breakdown by composite type, graphene type, application, and geographical areas. Herein the revenue generated from the composite type (graphene-enhanced polymer composite, graphene-enhanced ceramic composite, graphene-enhanced metal composite), graphene type (graphene oxide and graphene nanoplatelet), application (automotive, aerospace & defense, consumer electronics, building & construction, sports & leisure, and others), and geographies (North America, Europe, Asia-Pacific, Middle East and Africa, and South America) are tracked to calculate the overall market size, both in terms of value (\$million) and volume (tons). While highlighting the key driving and restraining forces for this market, the report also provides a detailed summary of the global graphene-enhanced composites market. It also includes the key participants involved in the industry at the relevant sections.

Key questions answered in the report:

What was the size in terms of value (\$million) and volume (tons) of the graphene-enhanced composites market in 2017, and what will be the growth rate during the forecast period 2018-2023?

What will be the market size of different types of composites (by value and volume) and their growth rate during the forecast period 2018-2023?

What will be the market size of different graphene types in the graphene-enhanced composites market (by value and volume) and their growth rate during the forecast period 2018-2023?

What will be the market size of different applications of graphene-enhanced composites market (by value and volume) and their growth rate during the forecast period 2018-2023?

What will be the market size for different regions and countries in terms of value and volume in the graphene-enhanced composites market and their growth rate in the forecast period 2018-2023?

What are the major driving forces that tend to increase the demand for graphene-enhanced composites in various end user industries during the forecast period?

What are the major challenges inhibiting the growth of the global graphene-enhanced composites market?

What are the competitive strengths of key players in the global graphene-enhanced composites by analyzing through market share analysis?

Who are the key players (along with their detailed analysis and profiles including their financials, company snapshots, key products & services, and SWOT analysis) in the market?

The report further includes a thorough analysis of the impact of the Porter's Five Forces to understand the overall attractiveness of the industry. The most commonly used strategy for developing a better hold on the market has been through partnerships, collaborations, and joint ventures. Moreover, the company profile section highlights significant information about the key companies involved along with their financial positions, key strategies, and developmental activities of recent years.

Further, the report includes an exhaustive analysis of the geographical split into North America, Europe, Asia-Pacific (APAC), Middle East & Africa, and South America. Each geography details the individual push and pull forces in addition to the key players from that region. This report is a meticulous compilation of research on more than 100 players in the global graphene-enhanced composites market and draws upon insights from in-depth interviews with the key opinion leaders of more than 50 leading companies, market participants, and vendors. The report also profiles approximately 16 companies with their financial analysis, SWOT, and product portfolio.

The company profiles in the report are Applied Graphene Materials plc, Global Graphene Group, Graphene 3D Lab Inc., Graphene Composites Ltd., Graphene NanoChem Plc, Graphenano, Haydale Graphene Industries Plc, Merck KGaA, NanoXplore Inc., SHD Composite Materials Ltd, The Sixth Element (Changzhou) Materials Technology Co., Ltd., Thomas Swan & Co. Ltd., Versarien Plc, Vorbeck Materials Corporation, and XG Sciences, Inc.

Contents

EXECUTIVE SUMMARY

1 MARKET DYNAMICS

1.1 Overview

1.2 Drivers

1.2.1 Growing demand for lightweight materials

1.2.2 Government funding backing the growth of the global graphene-enhanced composites market

1.2.3 High expenditure on research and development (R&D) by key players

1.3 Restraints

1.3.1 Production challenges

1.3.2 Less focus on entry in the value chain

1.3.3 High cost of graphene-enhanced composites

1.4 Opportunities

1.4.1 Production of low-cost graphene-enhanced composites

1.4.2 Up scaling graphene production

1.4.3 Exploring opportunities across other end users

2 COMPETITIVE LANDSCAPE

2.1 Key Market Developments and Strategies

2.1.1 Overview

2.1.2 Partnerships, Collaborations, and Joint Ventures

2.1.3 Product Launch

2.1.4 Mergers & Acquisitions

2.1.5 Business Expansion and Contracts

2.1.6 Others

2.2 Industry Attractiveness

2.2.1 Threat of new entrants

2.2.2 Bargaining Power of Buyer

2.2.3 Bargaining Power of Suppliers

2.2.4 Threat from Substitutes

2.2.5 Intensity of Competitive Rivalry

2.3 Global Graphene-enhanced Composites Market Share Analysis

2.3.1 Overview

2.4 Opportunity Analysis

2.5 R&D Analysis of Leading Players in the Global Graphene-enhanced Composites Market

3 GLOBAL GRAPHENE-ENHANCED COMPOSITES MARKET (BY COMPOSITE TYPE), \$MILLION AND TONS, 2017-2023

3.1 Assumptions and Limitations for Analysis and Forecast of the Global Graphene-enhanced Composites Market

3.2 Market Overview

3.3 Graphene-enhanced Polymer Composites

3.4 Graphene-enhanced Ceramic Composites

3.5 Graphene-enhanced Metal Composites

4 GLOBAL GRAPHENE-ENHANCED COMPOSITES MARKET (BY GRAPHENE TYPE), \$MILLION AND TONS, 2017-2023

4.1 Market Overview

4.2 Graphene Oxide

4.3 Graphene Nanoplatelets

5 GLOBAL GRAPHENE-ENHANCED COMPOSITES MARKET (BY APPLICATION), \$MILLION AND TONS, 2017-2023

5.1 Market Overview

5.2 Automotive Industry

5.3 Aerospace & Defense

5.4 Consumer Electronics

5.5 Sports & Leisure

5.6 Building & Construction

5.7 Others

6 GRAPHENE-ENHANCED COMPOSITES MARKET BY REGION, \$MILLION AND TONS, 2017–2023

6.1 Market Overview

6.2 North America

6.2.1 North America Graphene-enhanced Composites Market (by Composite Type)

6.2.2 North America Graphene-enhanced Composites Market (by Application)

6.2.3 North America Graphene-enhanced Composites Market (by Graphene Type)

6.2.4 North America Graphene-enhanced Composites Market (by Country)

6.2.4.1 The U.S.

6.2.4.1.1 U.S. Graphene-enhanced Composites Market (by Composite Type)

6.2.4.1.2 U.S. Graphene-enhanced Composites Market (by Application)

6.2.4.2 Canada

6.2.4.2.1 Canada Graphene-enhanced Composites Market (by Composite Type)

6.2.4.2.2 Canada Graphene-enhanced Composites Market (by Application)

6.2.4.3 Mexico

6.2.4.3.1 Mexico Graphene-enhanced Composites Market (by Composite Type)

6.2.4.3.2 Mexico Graphene-enhanced Composites Market (by Application)

6.3 Asia-Pacific

6.3.1 Asia-Pacific Graphene-enhanced Composites Market (by Composite Type)

6.3.2 Asia-Pacific Graphene-enhanced Composites Market (by Application)

6.3.3 Asia-Pacific Graphene-enhanced Composites Market (by Graphene Type)

6.3.4 Asia-Pacific Graphene-enhanced Composites Market (by Country)

6.3.4.1 China

6.3.4.1.1 China Graphene-enhanced Composites Market (by Composite Type)

6.3.4.1.2 China Graphene-enhanced Composites Market (by Application)

6.3.4.2 Japan

6.3.4.2.1 Japan Graphene-enhanced Composites Market (by Composite Type)

6.3.4.2.2 Japan Graphene-enhanced Composites Market (by Application)

6.3.4.3 India

6.3.4.3.1 India Graphene-enhanced Composites Market (by Composite Type)

6.3.4.3.2 India Graphene-enhanced Composites Market (by Application)

6.3.4.4 South Korea

6.3.4.4.1 South Korea Graphene-enhanced Composites Market (by Composite Type)

6.3.4.4.2 South Korea Graphene-enhanced Composites Market (by Application)

6.3.4.5 Singapore

6.3.4.5.1 Singapore Graphene-enhanced Composites Market (by Composite Type)

6.3.4.5.2 Singapore Graphene-enhanced Composites Market (by Application)

6.3.4.6 Australia & New Zealand (ANZ)

6.3.4.6.1 Australia & New Zealand (ANZ) Graphene-enhanced Composites Market (by Composite Type)

6.3.4.6.2 Australia & New Zealand (ANZ) Graphene-enhanced Composites Market (by Application)

6.3.4.7 Rest-of-APAC

6.3.4.7.1 Rest-of-APAC Graphene-enhanced Composites Market (by Composite Type)

6.3.4.7.2 Rest-of-APAC Graphene-enhanced Composites Market (by Application)

6.4 Europe

6.4.1 Europe Graphene-enhanced Composites Market (by Composite Type)

6.4.2 Europe Graphene-enhanced Composites Market (by Application)

6.4.3 Europe Graphene-enhanced Composites Market (by Graphene Type)

6.4.4 Europe Graphene-enhanced Composites Market (by Country)

6.4.4.1 The U.K.

6.4.4.1.1 The U.K. Graphene-enhanced Composites Market (by Composite Type)

6.4.4.1.2 U.K. Graphene-enhanced Composites Market (by Application)

6.4.4.2 Germany

6.4.4.2.1 Germany Graphene-enhanced Composites Market (by Composite Type)

6.4.4.2.2 Germany Graphene-enhanced Composites Market (by Application)

6.4.4.3 France

6.4.4.3.1 France Graphene-enhanced Composites Market (by Composite Type)

6.4.4.3.2 France Graphene-enhanced Composites Market (by Application)

6.4.4.4 Italy

6.4.4.4.1 Italy Graphene-enhanced Composites Market (by Composite Type)

6.4.4.4.2 Italy Graphene-enhanced Composites Market (by Application)

6.4.4.5 Spain

6.4.4.5.1 Spain Graphene-enhanced Composites Market (by Composite Type)

6.4.4.5.2 Spain Graphene-enhanced Composites Market (by Application)

6.4.4.6 The Netherlands

6.4.4.6.1 The Netherlands Graphene-enhanced Composites Market (by Composite Type)

6.4.4.6.2 The Netherlands Graphene-enhanced Composites Market (by Application)

6.4.4.7 Rest-of-Europe

6.4.4.7.1 Rest-of-Europe Graphene-enhanced Composites Market (by Composite Type)

6.4.4.7.2 Rest-of-Europe Graphene-enhanced Composites Market (by Application)

6.5 Middle East & Africa (MEA)

6.5.1 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Composite Type)

6.5.2 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Application)

6.5.3 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Graphene Type)

6.5.4 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Country)

6.5.4.1 Saudi Arabia

- 6.5.4.1.1 Saudi Arabia Graphene-enhanced Composites Market (by Composite Type)
- 6.5.4.1.2 Saudi Arabia Graphene-enhanced Composites Market (by Application)
- 6.5.4.2 The UAE
 - 6.5.4.2.1 The UAE Graphene-enhanced Composites Market (by Composite Type)
- 6.5.4.3 Iran
 - 6.5.4.3.1 Iran Graphene-enhanced Composites Market (by Composite Type)
 - 6.5.4.3.2 Iran Graphene-enhanced Composites Market (by Application)
- 6.5.4.4 Rest-of-MEA
 - 6.5.4.4.1 Rest of MEA Graphene-enhanced Composites Market (by Composite Type)
 - 6.5.4.4.2 Rest of MEA Graphene-enhanced Composites Market (by Application)
- 6.6 South America
 - 6.6.1 South America Graphene-enhanced Composites Market (by Composite Type)
 - 6.6.2 South America Graphene-enhanced Composites Market (by Application)
 - 6.6.3 South America Graphene-enhanced Composites Market (by Graphene Type)
 - 6.6.4 South America Graphene-enhanced Composites Market (by Country)
 - 6.6.4.1 Brazil
 - 6.6.4.1.1 Brazil Graphene-enhanced Composites Market (by Composite Type)
 - 6.6.4.1.2 Brazil Graphene-enhanced Composites Market (by Application)
 - 6.6.4.2 Argentina
 - 6.6.4.2.1 Argentina Graphene-enhanced Composites Market (by Composite Type)
 - 6.6.4.2.2 Argentina Graphene-enhanced Composites Market (by Application)
 - 6.6.4.3 Colombia
 - 6.6.4.3.1 Colombia Graphene-enhanced Composites Market (by Composite Type)
 - 6.6.4.3.2 Colombia Graphene-enhanced Composites Market (by Application)
 - 6.6.4.4 Rest-of-South America
 - 6.6.4.4.1 Rest of South America Graphene-enhanced Composites Market (by Composite Type)
 - 6.6.4.4.2 Rest of South America Graphene-enhanced Composites Market (by Application)

7 COMPANY PROFILES

- 7.1 Overview
- 7.2 Applied Graphene Materials plc
 - 7.2.1 Company Overview
 - 7.2.2 Product Portfolio
 - 7.2.3 Financials

- 7.2.4 Financial Summary
- 7.2.5 SWOT Analysis
- 7.3 Global Graphene Group
 - 7.3.1 Company Overview
 - 7.3.2 Corporate Summary
 - 7.3.3 Product Portfolio
 - 7.3.4 SWOT Analysis
- 7.4 Graphene 3D Lab Inc.
 - 7.4.1 Company Overview
 - 7.4.2 Product Portfolio
 - 7.4.3 Financials
 - 7.4.4 Financial Summary
 - 7.4.5 SWOT Analysis
- 7.5 Graphene Composites Ltd.
 - 7.5.1 Company Overview
 - 7.5.2 Corporate Summary
 - 7.5.3 Product Portfolio
 - 7.5.4 SWOT Analysis
- 7.6 Graphene NanoChem Plc
 - 7.6.1 Company Overview
 - 7.6.2 Product Portfolio
 - 7.6.3 Financials
 - 7.6.4 Financial Summary
 - 7.6.5 SWOT Analysis
- 7.7 Graphenano
 - 7.7.1 Company Overview
 - 7.7.2 Corporate Summary
 - 7.7.3 Product Portfolio
 - 7.7.4 SWOT Analysis
- 7.8 Haydale Graphene Industries Plc
 - 7.8.1 Company Overview
 - 7.8.2 Product Portfolio
 - 7.8.3 Financials
 - 7.8.4 Financial Summary
 - 7.8.5 SWOT Analysis
- 7.9 Merck KGaA
 - 7.9.1 Company Overview
 - 7.9.2 Product Portfolio
 - 7.9.3 Financials

- 7.9.4 Financial Summary
- 7.9.5 SWOT Analysis
- 7.10 NanoXplore Inc.
 - 7.10.1 Company Overview
 - 7.10.2 Corporate Summary
 - 7.10.3 Product Portfolio
 - 7.10.4 SWOT Analysis
- 7.11 SHD Composite Materials Ltd
 - 7.11.1 Company Overview
 - 7.11.2 Corporate Summary
 - 7.11.3 Product Portfolio
 - 7.11.4 SWOT Analysis
- 7.12 The Sixth Element (Changzhou) Materials Technology Co., Ltd.
 - 7.12.1 Company Overview
 - 7.12.2 Corporate Summary
 - 7.12.3 Product Portfolio
 - 7.12.4 SWOT Analysis
- 7.13 Thomas Swan & Co. Ltd.
 - 7.13.1 Company Overview
 - 7.13.2 Corporate Summary
 - 7.13.3 Product Portfolio
 - 7.13.4 SWOT Analysis
- 7.14 Versarien Plc
 - 7.14.1 Company Overview
 - 7.14.2 Product Portfolio
 - 7.14.3 Financials
 - 7.14.4 Financial Summary
 - 7.14.5 SWOT Analysis
- 7.15 Vorbeck Materials Corporation
 - 7.15.1 Company Overview
 - 7.15.2 Corporate Summary
 - 7.15.3 Product Portfolio
 - 7.15.4 SWOT Analysis
- 7.16 XG Sciences, Inc.
 - 7.16.1 Company Overview
 - 7.16.2 Product Portfolio
 - 7.16.3 Financials
 - 7.16.4 Financial Summary
 - 7.16.5 SWOT Analysis

8 REPORT SCOPE & METHODOLOGY

8.1 Report Scope

8.1.1 Assumptions

8.1.2 Limitations

8.1.3 Primary Data Sources

8.1.4 Secondary Data Sources

8.1.5 Data Triangulation

8.1.6 Market Estimation and Forecast

List Of Tables

LIST OF TABLES

Table 1 Global Graphene-enhanced Composites Market Snapshot, 2017 and 2023

Table 2 Global Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 1.1 R & D Expenses of Leading Companies in Graphene-enhanced Composites Market

Table 2.1 Key Partnership, Collaborations, and Joint Ventures Activities (2015-2018)

Table 2.2 Key Products Launched (2015-2018)

Table 2.3 Key Mergers & Acquisition (2014-2017)

Table 2.4 Key Business Expansions and Contracts (2015-2018)

Table 2.5 Key Other Activities (2015-2018)

Table 4.1 Global Graphene-enhanced Composites Market (by Graphene type), Tons, 2017-2023

Table 4.2 Global Graphene-enhanced Composites Market by Graphene type, 2017-2023 (\$Million)

Table 5.1 Global Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 5.2 Global Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.1 Graphene-enhanced Composites Market (by Region), Tons, 2017-2023

Table 6.2 Graphene-enhanced Composites Market (by Region), \$Million, 2017-2023

Table 6.3 North America Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.4 North America Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.5 North America Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.6 North America Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.7 North America Graphene-enhanced Composites Market (by Graphene Type), Tons, 2017-2023

Table 6.8 North America Graphene-enhanced Composites Market (by Graphene Type), \$Million, 2017-2023

Table 6.9 North America Graphene-enhanced Composites Market (by Country), Tons, 2017-2023

Table 6.10 North America Graphene-enhanced Composites Market (by Country),

\$Million, 2017-2023

Table 6.11 U.S. Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.12 U.S. Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.13 U.S. Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.14 U.S. Graphene-enhanced Composites Market (by End User), \$Million, 2017-2023

Table 6.15 Canada Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.16 Canada Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.17 Canada Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.18 Canada Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.19 Mexico Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.20 Mexico Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.21 Mexico Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.22 Mexico Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.23 Asia-Pacific Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.24 Asia-Pacific Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.25 Asia-Pacific Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.26 Asia-Pacific Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.27 Asia-Pacific Graphene-enhanced Composites Market (by Graphene Type), Tons, 2017-2023

Table 6.28 Asia-Pacific Graphene-enhanced Composites Market (by Graphene Type), \$Million, 2017-2023

Table 6.29 Asia-Pacific Graphene-enhanced Composites Market (by Country), Tons, 2017-2023

Table 6.30 Asia-Pacific Graphene-enhanced Composites Market (by Country), \$Million, 2017-2023

Table 6.31 China Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.32 China Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.33 China Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.34 China Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.35 Japan Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.36 Japan Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.37 Japan Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.38 Japan Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.39 India Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.40 India Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.41 India Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.42 India Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.43 South Korea Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.44 South Korea Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.45 South Korea Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.46 South Korea Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.47 Singapore Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.48 Singapore Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.49 Singapore Graphene-enhanced Composites Market (by Application), Tons,

2017-2023

Table 6.50 Singapore Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.51 Australia & New Zealand Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.52 Australia & New Zealand Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.53 Australia & New Zealand Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.54 Australia & New Zealand Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.55 Rest-of-APAC Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.56 Rest-of-APAC Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.57 Rest-of-APAC Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.58 Rest-of-APAC Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.59 Europe Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.60 Europe Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.61 Europe Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.62 Europe Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.63 Europe Graphene-enhanced Composites Market (by Graphene Type), Tons, 2017-2023

Table 6.64 Europe Graphene-enhanced Composites Market (by Graphene Type), \$Million, 2017-2023

Table 6.65 Europe Graphene-enhanced Composites Market (by Country), Tons, 2017-2023

Table 6.66 Europe Graphene-enhanced Composites Market (by Country), \$Million, 2017-2023

Table 6.67 The U.K. Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.68 U.K. Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.69 U.K. Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.70 U.K. Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.71 Germany Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.72 Germany Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.73 Germany Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.74 Germany Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.75 France Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.76 France Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.77 France Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.78 France Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.79 Italy Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.80 Italy Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.81 Italy Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.82 Italy Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.83 Spain Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.84 Spain Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.85 Spain Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.86 Spain Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.87 The Netherlands Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.88 Netherlands Graphene-enhanced Composites Market (by Composite Type),

\$Million, 2017-2023

Table 6.89 The Netherlands Graphene-enhanced Composites Market (by Application),
Tons, 2017-2023

Table 6.90 The Netherlands Graphene-enhanced Composites Market (by Application),
\$Million, 2017-2023

Table 6.91 Rest-of-Europe Graphene-enhanced Composites Market (by Composite
Type), Tons, 2017-2023

Table 6.92 Rest-of-Europe Graphene-enhanced Composites Market (by Composite
Type), \$Million, 2017-2023

Table 6.93 Rest-of-Europe Graphene-enhanced Composites Market (by Application),
Tons, 2017-2023

Table 6.94 Rest-of-Europe Graphene-enhanced Composites Market (by Application),
\$Million, 2017-2023

Table 6.95 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by
Composite Type), Tons, 2017-2023

Table 6.96 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by
Composite Type), \$Million, 2017-2023

Table 6.97 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by
Application), Tons, 2017-2023

Table 6.98 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by
Application), \$Million, 2017-2023

Table 6.99 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by
Graphene Type), Tons, 2017-2023

Table 6.100 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by
Graphene Type), \$Million, 2017-2023

Table 6.101 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by
Country), Tons, 2017-2023

Table 6.102 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by
Country), \$Million, 2017-2023

Table 6.103 Saudi Arabia Graphene-enhanced Composites Market (by Composite
Type), Tons, 2017-2023

Table 6.104 Saudi Arabia Graphene-enhanced Composites Market (by Composite
Type), \$Million, 2017-2023

Table 6.105 Saudi Arabia Graphene-enhanced Composites Market (by Application),
Tons, 2017-2023

Table 6.106 Saudi Arabia Graphene-enhanced Composites Market (by Application),
\$Million, 2017-2023

Table 6.107 The UAE Graphene-enhanced Composites Market (by Composite Type),
Tons, 2017-2023

Table 6.108 The UAE Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.109 The UAE Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.110 The UAE Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.111 Iran Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.112 Iran Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.113 Iran Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.114 Iran Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.115 Rest of MEA Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.116 Rest of MEA Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.117 Rest of MEA Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.118 Rest of MEA Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.119 South America Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.120 South America Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.121 South America Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.122 South America Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.123 South America Graphene-enhanced Composites Market (by Graphene Type), Tons, 2017-2023

Table 6.124 South America Graphene-enhanced Composites Market (by Graphene Type), \$Million, 2017-2023

Table 6.125 South America Graphene-enhanced Composites Market (by Country), Tons, 2017-2023

Table 6.126 South America Graphene-enhanced Composites Market (by Country), \$Million, 2017-2023

Table 6.127 Brazil Graphene-enhanced Composites Market (by Composite Type),

Tons, 2017-2023

Table 6.128 Brazil Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.129 Brazil Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.130 Brazil Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.131 Argentina Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.132 Argentina Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.133 Argentina Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.134 Argentina Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.135 Colombia Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.136 Colombia Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.137 Colombia Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.138 Colombia Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 6.139 Rest of South America Graphene-enhanced Composites Market (by Composite Type), Tons, 2017-2023

Table 6.140 Rest of South America Graphene-enhanced Composites Market (by Composite Type), \$Million, 2017-2023

Table 6.141 Rest of South America Graphene-enhanced Composites Market (by Application), Tons, 2017-2023

Table 6.142 Rest of South America Graphene-enhanced Composites Market (by Application), \$Million, 2017-2023

Table 7.1 Applied Graphene Materials plc: Product Portfolio

Table 7.2 Global Graphene Group: Product Portfolio

Table 7.3 Graphene 3D Lab Inc.: Product Portfolio

Table 7.4 Graphene Composites Ltd.: Product Portfolio

Table 7.5 Graphene NanoChem Plc: Product Portfolio

Table 7.6 Graphenano: Product Portfolio

Table 7.7 Haydale Graphene Industries Plc: Product Portfolio

Table 7.8 Merck KGaA: Product Portfolio

Table 7.9 NanoXplore Inc.: Product Portfolio

Table 7.10 SHD Composite Materials Ltd: Product Portfolio

Table 7.11 The Sixth Element (Changzhou) Materials Technology Co., Ltd: Product Portfolio

Table 7.12 Thomas Swan & Co. Ltd.: Product Portfolio

Table 7.13 Versarien Plc: Product Portfolio

Table 7.14 Vorbeck Materials Corporation: Product Portfolio

Table 7.15 XG Sciences, Inc.: Product Portfolio

List Of Figures

LIST OF FIGURES

- Figure 1 Global Graphene-enhanced Composites Market Snapshot, 2017 and 2023
- Figure 2 Global Graphene-enhanced Composites Market (by Type), 2017 & 2023
- Figure 3 Global Graphene-enhanced Composites Market (by Application), 2017 & 2023
- Figure 4 Global Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023
- Figure 5 Global Graphene-enhanced Composites Market (by Region), 2017 & 2023
- Figure 6 Global Graphene-enhanced Composites Market (by Region), 2017
- Figure 7 Graphene-enhanced Composites Market: Leading Players Analysis, 2017
- Figure 1.1 Market Dynamics
- Figure 1.2 Impact Analysis of Drivers
- Figure 1.3 Impact Analysis of Restraints
- Figure 1.4 Impact Analysis of Opportunities
- Figure 2.1 Strategies Adopted by the Key Players
- Figure 2.2 Share of Key Market Strategies and Developments
- Figure 2.3 Global Graphene-enhanced Composites Porter's Five Forces Analysis
- Figure 2.4 Analysing Threat of New Entrants
- Figure 2.5 Analyzing the Bargaining Power of Buyer
- Figure 2.6 Analyzing the Bargaining Power of Suppliers
- Figure 2.7 Analyzing Threat from Substitutes
- Figure 2.8 Analysing the Intensity of Competitive Rivalry
- Figure 2.9 Global Graphene-enhanced Composites Market Share Analysis, 2017
- Figure 2.10 Opportunity Analysis
- Figure 2.11 R&D Analysis of the Key Players in the Global Graphene-enhanced Composites Market
- Figure 3.1 Global Graphene-enhanced Composites Market (by Composite Type)
- Figure 3.2 Global Graphene-enhanced Composites Market (by Composite Type), 2017 & 2023
- Figure 3.3 Global Graphene-enhanced Composites Market Attractiveness Analysis (by Composite Type) 2018-2023
- Figure 3.4 Graphene-enhanced Polymer Composites in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 3.5 Graphene-enhanced Ceramic Composites in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 3.6 Graphene-enhanced Metal Composites in Global Graphene-enhanced Composites Market, 2017-2023

- Figure 4.1 Global Graphene-enhanced Composites Market by Graphene type
- Figure 4.2 Global Graphene-enhanced Composites Market (by Graphene type), 2017 & 2023
- Figure 4.3 Graphene Oxide in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 4.4 Graphene Nanoplatelets in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 5.1 Global Graphene-enhanced Composites Market (by Application)
- Figure 5.2 Global Graphene-enhanced Composites Market (by Application), 2017 & 2023
- Figure 5.3 Automotive Industry in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 5.4 Aerospace & Defense in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 5.5 Consumer Electronics in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 5.6 Sports & Leisure in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 5.7 Building & Construction in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 5.8 Others in Global Graphene-enhanced Composites Market, 2017-2023
- Figure 6.1 Graphene-enhanced Composites Market- Geographic Segmentation
- Figure 6.2 Graphene-enhanced Composites Market Growth Rate, 2018-2023
- Figure 6.3 Graphene-enhanced Composites Market (by Region), 2017 & 2023
- Figure 6.4 North America Graphene-enhanced Composites Market (by Composite Type), 2017,2018 and 2023
- Figure 6.5 North America Graphene-enhanced Composites Market (by Composite Type), 2017, 2018, and 2023
- Figure 6.6 North America Graphene-enhanced Composites Market (by Application), 2017 & 2023
- Figure 6.7 North America Graphene-enhanced Composites Market (by Application), 2017 & 2023
- Figure 6.8 North America Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023
- Figure 6.9 North America Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023
- Figure 6.10 North America Graphene-enhanced Composites Market (by Country), 2017 & 2023
- Figure 6.11 The U.S. Graphene-enhanced Composites Market, 2017-2023

Figure 6.12 Canada Graphene-enhanced Composites Market, 2017-2023

Figure 6.13 Mexico Graphene-enhanced Composites Market, 2017-2023

Figure 6.14 Asia-Pacific Graphene-enhanced Composites Market (by Composite Type), 2017, 2018 & 2023

Figure 6.15 Asia-Pacific Graphene-enhanced Composites Market (by Composite Type), 2017, 2018 & 2023

Figure 6.16 Asia-Pacific Graphene-enhanced Composites Market (by Application), 2017 & 2023

Figure 6.17 Asia-Pacific Graphene-enhanced Composites Market (by Application), 2017 & 2023

Figure 6.18 Asia-Pacific Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023

Figure 6.19 Asia-Pacific Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023

Figure 6.20 Asia-Pacific Graphene-enhanced Composites Market (by Country), Tons, 2017 & 2023

Figure 6.21 China Graphene-enhanced Composites Market, 2017-2023

Figure 6.22 Japan Graphene-enhanced Composites Market, 2017-2023

Figure 6.23 India Graphene-enhanced Composites Market, 2017-2023

Figure 6.24 South Korea Graphene-enhanced Composites Market, 2017-2023

Figure 6.25 Singapore Graphene-enhanced Composites Market, 2017-2023

Figure 6.26 Australia & New Zealand Graphene-enhanced Composites Market, 2017-2023

Figure 6.27 Rest-of-APAC Graphene-enhanced Composites Market, 2017-2023

Figure 6.28 Europe Graphene-enhanced Composites Market (by Composite Type), 2017, 2018 & 2023

Figure 6.29 Europe Graphene-enhanced Composites Market (by Composite Type), 2017, 2018 & 2023

Figure 6.30 Europe Graphene-enhanced Composites Market (by Application), 2017 & 2023

Figure 6.31 Europe Graphene-enhanced Composites Market (by Application), 2017 & 2023

Figure 6.32 Europe Graphene-enhanced Composites Market (by Graphene Type), Tons, 2017 & 2023

Figure 6.33 Europe Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023

Figure 6.34 Europe Graphene-enhanced Composites Market (by Country), Tons, 2017 & 2023

Figure 6.35 The U.K. Graphene-enhanced Composites Market, 2017-2023

- Figure 6.36 Germany Graphene-enhanced Composites Market, 2017-2023
- Figure 6.37 France Graphene-enhanced Composites Market, 2017-2023
- Figure 6.38 Italy Graphene-enhanced Composites Market, 2017-2023
- Figure 6.39 Spain Graphene-enhanced Composites Market, 2017-2023
- Figure 6.40 The Netherlands Graphene-enhanced Composites Market, 2017-2023
- Figure 6.41 Rest-of-Europe Graphene-enhanced Composites Market, 2017-2023
- Figure 6.42 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Composite Type), 2017, 2018
- Figure 6.43 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Composite Type), 2017, 2018
- Figure 6.44 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Application), 2017 & 2023
- Figure 6.45 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Application), 2017 & 2023
- Figure 6.46 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023
- Figure 6.47 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023
- Figure 6.48 Middle East & Africa (MEA) Graphene-enhanced Composites Market (by Country), 2017 & 2023
- Figure 6.49 Saudi Arabia Graphene-enhanced Composites Market, 2017-2023
- Figure 6.50 The UAE Graphene-enhanced Composites Market, 2017-2023
- Figure 6.51 Iran Graphene-enhanced Composites Market, 2017-2023
- Figure 6.52 Rest of Middle East & Africa (MEA) Graphene-enhanced Composites Market, 2017-2023
- Figure 6.53 South America Graphene-enhanced Composites Market (by Composite Type), 2017, 2018 & 2023
- Figure 6.54 South America Graphene-enhanced Composites Market (by Composite Type), 2017, 2018 & 2023
- Figure 6.55 South America Graphene-enhanced Composites Market (by Application), 2017 & 2023
- Figure 6.56 South America Graphene-enhanced Composites Market (by Application), 2017 & 2023
- Figure 6.57 South America Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023
- Figure 6.58 South America Graphene-enhanced Composites Market (by Graphene Type), 2017 & 2023
- Figure 6.59 South America Graphene-enhanced Composites Market (by Country), Tons & \$Million, 2017 & 2023

- Figure 6.60 Brazil Graphene-enhanced Composites Market, 2017-2023
- Figure 6.61 Argentina Graphene-enhanced Composites Market, 2017-2023
- Figure 6.62 Colombia Graphene-enhanced Composites Market, 2017-2023
- Figure 6.63 Rest-of-South America Graphene-enhanced Composites Market, 2017-2023
- Figure 7.1 Share of Key Companies
- Figure 7.2 Applied Graphene Materials plc: Overall Financials, 2015-2017
- Figure 7.3 Applied Graphene Materials plc: SWOT Analysis
- Figure 7.4 Global Graphene Group: SWOT Analysis
- Figure 7.5 Graphene 3D Lab Inc.: Overall Financials, 2015-2017
- Figure 7.6 Graphene 3D Lab Inc.: SWOT Analysis
- Figure 7.7 Graphene Composites Ltd.: SWOT Analysis
- Figure 7.8 Graphene NanoChem Plc: Overall Financials, 2015-2017
- Figure 7.9 Graphene NanoChem Plc: SWOT Analysis
- Figure 7.10 Graphenano : SWOT Analysis
- Figure 7.11 Haydale Graphene Industries Plc: Overall Financials, 2015-2017
- Figure 7.12 Haydale Graphene Industries Plc: Net Revenue by Business Segment, 2015-2017
- Figure 7.13 Haydale Graphene Industries Plc: Net Revenue by Region, 2015-2017
- Figure 7.14 Haydale Graphene Industries Plc: SWOT Analysis
- Figure 7.15 Merck KGaA: Overall Financials, 2015-2017
- Figure 7.16 Merck KGaA: Net Revenue by Business Segment, 2015-2017
- Figure 7.17 Merck KGaA: Net Revenue (by Region), 2015-2017
- Figure 7.18 Merck KGaA: SWOT Analysis
- Figure 7.19 NanoXplore, Inc.: SWOT Analysis
- Figure 7.20 SHD Composite Materials Ltd : SWOT Analysis
- Figure 7.21 The Sixth Element (Changzhou) Materials Technology Co., Ltd: SWOT Analysis
- Figure 7.22 Thomas Swan & Co. Ltd.: SWOT Analysis
- Figure 7.23 Versarien Plc: Overall Financials, 2015-2017
- Figure 7.24 Versarien Plc: Net Revenue by Business Segment, 2015-2017
- Figure 7.25 Versarien Plc: Net Revenue by Region, 2015-2017
- Figure 7.26 Versarien Plc: SWOT Analysis`
- Figure 7.27 Vorbeck Materials Corporation: SWOT Analysis
- Figure 7.28 XG Sciences, Inc.: Overall Financials, 2015-2017
- Figure 7.29 XG Sciences, Inc.: SWOT Analysis`
- Figure 8.1 Global Graphene-enhanced Composites Market Scope
- Figure 8.2 Report Design
- Figure 8.3 Primary Interviews (by Player, Designation, and Region)

Figure 8.4 Sources of Secondary Research

Figure 8.5 Data Triangulation

Figure 8.6 Top-Down & Bottom-Up Approach

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