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The Global Market for Graphene and 2D Materials 2024-2035

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Abstracts

Graphene continues to be one of the most promising advanced materials with exceptional electrical, mechanical and thermal properties. While adoption is rapidly increasing, the global graphene market remains in a formative stage with commercial production ramping up. However the market is projected to grow at an accelerated rate, heightened deployment across sectors like energy storage, electronics and composites manufacturing. Applications currently leading demand include conductive components, transistors for RF equipment, biosensors for pathogen detection and thermal management solutions. Larger scale markets like automotive composites and construction materials incorporating graphene for structural reinforcement are forecast to contribute significantly to growth over the next decade. Production scale up continues with major capacity additions announced across North America, Europe and Asia to serve rising interest from downstream industries. This is promoting improved availability at reduced prices - further aiding penetration of graphene into polymer, metal-matrix composites and coatings. While the industry has faced prior oversupply and quality control concerns, end-user feedback indicates increasing product reliability and measurement process standardization.

The Global Market for Graphene 2024-2035 provides a comprehensive analysis of the global graphene market including granular demand forecasts in tons and revenue projections in millions USD across key application segments like batteries, sensors, transistors, composites, construction, lighting and biomedical.

The report offers insights into latest product developments, manufacturing processes, prices and commercialization progress for graphene variants like nanoplatelets, quantum dots, oxides and graphene conductive inks. It profiles over 350 company activities, production capacities, strategic partnerships and industry expansion plans.

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Regional demand trends are quantified for North America, Europe, Asia Pacific and Rest of World. Accurate 11-year forecasts help anticipate expansion potential in electric vehicles, 5G equipment, green energy systems, aircraft components, microelectronics and smart textiles. Report contents include:

Commercialization Progress

Global Demand Forecasts

Key Applications Driving Growth

Graphene Types: Materials Analysis

Comparative Assessment of Properties and Performance

Manufacturing Processes

Strategic Partnerships and Licensing Agreements

Patent Publication Trends Illustrating Innovations

Pricing Analysis for Graphene

Producer Profiles and Capacity Investments

Market Analysis and Forecasts including Granular Demand Quantification from 2018-2035

Regional Trends: APAC, North America, Europe, RoW

Technology Roadmap for Emerging Applications

Comparative Assessment of 2D Alternatives-MXenes, Borophene, Silicene, Phosphorene and More

Profiles of Over 300 producers, product developers and start-ups. Companies profiled include Advanced Material Development (AMD), Avadain, Black Swan Graphene, Carbon Waters, Directa Plus, First Graphene, G6 Materials

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Corporation, Gerdau Graphene, Graphene Manufacturing Group (GMG), Haydale, HydroGraph Clean Power, Lyten, Nanografi, Nanoxplore, Nanotech Energy, Paragraf, Sparc Technologies, Universal Matter and Versarien.

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