

Graphene Electronics Market - Forecasts from 2018 to 2023

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Abstracts

Graphene electronics market is projected to witness CAGR of 37.55% over the forecast period to grow to US\$2,060.347 million by 2023, increasing from US\$304.179 million in 2017. Graphene is a single layer of carbon atoms packed in a honeycomb structure whose electrical, optical, mechanical and thermal property make it well-suited for wireless or Radio Frequency (RF) communications. A surge in the demand of flexible, transparent and super performing products for applications such as electronic displays, sensors, and solar cells among others is providing tremendous growth opportunities for the graphene electronics vendors. Growing demand for the longer battery life of electronic devices is also positively impacting the market growth. However, significant initial investments for market entry and high cost of graphene integrated components used in electronic devices is an impeding factor to the market growth. North America accounted for the bulk of the global graphene electronics demand, due to expansion of research and development budget by various enterprises.

This research study examines the current market trends related to the demand, supply, and sales, in addition to the recent developments. Major drivers, restraints, and opportunities have been covered to provide an exhaustive picture of the market. The analysis presents in-depth information regarding the development, trends, and industry policies and regulations implemented in each of the geographical regions. Further, the overall regulatory framework of the market has been exhaustively covered to offer stakeholders a better understanding of the key factors affecting the overall market environment.

Identification of key industry players in the industry and their revenue contribution to the overall business or relevant segment aligned to the study has been covered as a part of competitive intelligence done through extensive secondary research. Various studies

and data published by industry associations, analyst reports, investor presentations, press releases and journals among others have been taken into consideration while conducting the secondary research. Both bottom-up and top down approaches have been utilized to determine the market size of the overall market and key segments. The values obtained are correlated with the primary inputs of the key stakeholders in the global graphene electronics value chain. Last step involves complete market engineering which includes analyzing the data from different sources and existing proprietary datasets while using various data triangulation methods for market breakdown and forecasting. Market intelligence is presented in the form of analysis, charts, and graphics to help the clients in gaining faster and efficient understanding of the market.

Key industry players profiled as part of this report are Samsung Electronics, IBM, Graphene 3D Lab Inc., Graphene Square Inc., Applied Graphene Materials, Grafoid, GrafTech International Holdings, Graphene Frontiers, Graphenea, and Haydale Limited among others.

Segmentation

Graphene electronics market has been segmented by material type, application, and geography as below:

By Material Type

Film

Oxide

Nano Platelets

Foam

Others

By Application

Batteries

Display

Sensors

Solar cells

Chips

Lighting

Storage

Others

By Geography (US\$ billion)

North America

US

Canada

Others

South America

Europe

UK

Germany

France

Others

Middle East and Africa

Asia Pacific

Japan

China

India

Taiwan

Others

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