

Graphene Battery Market - Forecasts From 2018 to 2023

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Abstracts

Graphene Battery Market is projected to grow to US\$70.464 million by 2023 from US\$28.866 million in 2017, at a CAGR of 16.04%. Graphene is an allotrope of carbon and is the strongest, lightest and the most powerful conductor of electrical and thermal energy. It provides high power to electric cars, drones and other electric devices than any other existing technology. Graphene is widely used in supercapacitors and battery construction. Graphene batteries are lightweight chemically inert, durable, better suited for high capacity energy storage, have a longer lifespan and get electrically charged in short intervals as compared to other batteries. Growth in global graphene market is driven by accelerating global sales in electric cars and other electronic devices. Heavy utilization of these batteries in many industrial applications coupled with the rising awareness of the need to switch to non-conventional sources of energy is also augmenting the demand for these batteries. However fabricating graphene in large quantities at an affordable price, and absence of knowledge about its technological potential is hampering the market growth. North America and APAC region will drive the global market of graphene batteries over the forecasted period.

Research Methodology

Firstly, the report provides a brief introduction of the market and deals with detailed research methodology for calculating market size and forecasts, secondary data sources used and the primary inputs which were taken for data validation. This section also outlines various segmentation which has been covered as part of the report.

Market Dynamics

Next, the section provides comprehensive market dynamics through an overview section along with growth drivers, challenges, and opportunities which exist in the current market. This section of the report also provides supplier and industry outlook as a whole; key industry, global and regional regulations which are determining the market growth and a brief technological aspect of Graphene Batteries. Complete industry

analysis has also been covered by Porter's five forces model as a part of this report section.

Segmentation

Thirdly, Graphene Battery has been segmented on the basis of type, industry, and geography as follows:

By Type

Supercapacitor

Li-Ion Battery

Lead Acid Battery

Li-Sulphur battery

By Industry

Electronics

Aerospace and Defense

Healthcare

Automotive

Energy and Power

Others

By Geography

Americas

North America

South America

Europe Middle East and Africa

Europe

The Middle East and Africa

Asia Pacific

Market Players

Finally, competitive intelligence section deals with major players in the market, their growth strategies, products, financials, and recent investments among others. Key industry players profiled as part of this section are Group NanoXplore Inc, Graphenea S.A., Graphene NanoChem PLC, and Cambridge Nanosystems Ltd among others

Contents

1. INTRODUCTION

2. RESEARCH METHODOLOGY

3. EXECUTIVE SUMMARY

4. MARKET DYNAMICS

4.1. Market Overview and Segmentations

4.2. Drivers

4.3. Restraints

4.4. Opportunities

4.5. Supplier Outlook

4.6. Industry Outlook

4.7. Porter's 5 Forces Analysis

4.8. Industry Value Chain Analysis

4.9. Industry Regulations

4.10. Scenario Analysis

5. GRAPHENE BATTERY MARKET FORECAST BY TYPE (US\$ MILLION)

5.1. Supercapacitors

5.2. Li-Ion Battery

5.3. Lead Acid Battery

5.4. Li- Sulphur battery

6. GRAPHENE BATTERY MARKET FORECAST BY END USER INDUSTRY (US\$ MILLION)

6.1. Electronics

6.2. Aerospace and Defense

6.3. Healthcare

6.4. Automotive

6.5. Energy and Power

6.6. Others

7. GRAPHENE BATTERY MARKET FORECAST BY GEOGRAPHY (US\$ MILLION)

7.1. Americas

7.1.1. North America

7.1.2. South America

7.2. Europe Middle East and Africa

7.2.1. Europe

7.2.2. Middle East and Africa

7.3. Asia Pacific

8. COMPETITIVE INTELLIGENCE

8.1. Product Benchmarking

8.2. Investment Analysis

8.3. Recent Deals

8.4. Strategies of Key Players

9. COMPANY PROFILES

9.1. Graphene 3D Lab

9.2. Graphenano

9.3. Vorbeck Materials

9.4. Cambridge Nanosystems Ltd

9.5. Graphene NanoChem PLC

9.6. Graphenea S.A.

9.7. SanDisk Corporation

9.8. Cabot Corporation

9.9. NanoXplore

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