

Graphene Battery Market by Battery Type (Li-ion Batteries, Li-Sulfur Batteries, Supercapacitors, and Lead-acid Batteries) and Application (Automotive, Electronics, Energy, Aerospace & Defense, Industrial Robotics, and Healthcare): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

The global graphene battery market was valued at \$48.8 million in 2019 and is projected to reach \$398.6 million by 2027, to register a CAGR of 31.2% during the forecast period. The batteries which use graphene as electrode material are called graphene batteries. Graphene as electrode material can be used in various type of conventional batteries such as lithium batteries, lead batteries, lithium sulfur and material for supercapacitors.

Rise in sales of electric vehicles is majorly driving the growth of the graphene battery market, owing to extended range for long distance travelling and lesser charging time. Moreover, thriving portable electronics market is expected to boost the market growth. Furthermore, increasing government investments in R&D are expected to provide lucrative growth opportunities. However, lack of awareness of graphene technology, and the incapability of the market for commercialization process of graphene battery are expected to hinder the growth of the graphene battery market.

The global graphene battery market is analyzed by battery type, application, and region. Based on battery type, it is fragmented into Li-ion batteries, Li-Sulfur batteries, supercapacitors, and Lead-acid batteries. The applications covered in this study include automotive, electronics, energy, aerospace & defense, industrial robotics, and healthcare. Based on region, the global graphene battery market is analyzed across

North America (U.S., Canada, and Mexico), Europe (UK, Germany, Turkey, Spain, and rest of Europe), Asia-Pacific (China, India, Japan, Australia, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).

The key players operating in the market includes Cabot Corporation, Cambridge Nanosystems Ltd., G6 Materials Corp., Graphenano S.L., Graphene NanoChem plc, Graphenea S.A., NanoXplore Inc., Real Graphene USA, Vorbeck Materials Corp., and XG Sciences, Inc.

KEY MARKET SEGMENTS

BY BATTERY TYPE

Li-ion Batteries

Li-Sulfur Batteries

Supercapacitors

Lead-acid Batteries

BY APPLICATION

Automotive

Electronics

Energy

Aerospace & Defense

Industrial Robotics

Healthcare

BY REGION

North America

U.S.

Canada

Mexico

Europe

UK

Germany

Turkey

Spain

Rest of Europe

Asia-Pacific

China

India

Japan

Australia

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Cabot Corporation

Cambridge Nanosystems Ltd.

G6 Materials Corp.

Graphenano S.L.

Graphene NanoChem plc

Graphenea S.A.

NanoXplore Inc.

Real Graphene USA

Vorbeck Materials Corp.

XG Sciences, Inc

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