

# Global Global Graphene Oxide (GO) Market Growth 2019-2024

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## Abstracts

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Today's graphene is normally produced using mechanical or thermal exfoliation, chemical vapour deposition (CVD), and epitaxial growth. One of the most effective way of synthesised graphene on a large scale could be by the chemical reduction of graphene oxide. Since the first report on mechanical exfoliation of monolayer graphene in 2004, interest in graphite oxide (which is produced by oxidation of graphite) has increased dramatically as people search for a cheaper, simpler, more efficient and better yielding method of producing graphene, that can be scaled up massively compared to current methods, and be financially suitable for industrial or commercial applications.

While graphite is a 3 dimensional carbon based material made up of millions of layers of graphene, graphite oxide is a little different. By the oxidation of graphite using strong oxidizing agents, oxygenated functionalities are introduced in the graphite structure which not only expand the layer separation, but also makes the material hydrophilic (meaning that they can be dispersed in water). This property enables the graphite oxide to be exfoliated in water using sonication, ultimately producing single or few layer graphene, known as graphene oxide (GO). The main difference between graphite oxide and graphene oxide is, thus, the number of layers. While graphite oxide is a multilayer system in a graphene oxide dispersion a few layers flakes and monolayer flakes can be found.

Graphene oxide has two types: powder and solution. Graphene oxide can be dispersed into a range of concentration solution. Therefore, in this report, the capacity and production of solution graphene oxide is converted into powders.

Currently, Global Graphene Group, Graphenea, Garmor, ACS Material and The Sixth Element Materials are major manufacturers of this industry. Global Graphene Group is a

global leader. In 2017, the production of Global Graphene Group was 54.2 M Kg, and the company held a share of 26.82%.

Graphene oxide is an emerging industry. The cosmically industrial production is still being studied, most manufacturers begun the first commercial production since 2013. Although the profit margin of graphene oxide is high, the research funds is also phenomenal, in addition to this, the downstream demand is unstable.

According to this study, over the next five years the Global Graphene Oxide (GO) market will register a xx% CAGR in terms of revenue, the global market size will reach US\$ xx million by 2024, from US\$ xx million in 2019. In particular, this report presents the global market share (sales and revenue) of key companies in Global Graphene Oxide (GO) business, shared in Chapter 3.

This report presents a comprehensive overview, market shares, and growth opportunities of Global Graphene Oxide (GO) market by product type, application, key manufacturers and key regions and countries.

This study considers the Global Graphene Oxide (GO) value and volume generated from the sales of the following segments:

Segmentation by product type: breakdown data from 2014 to 2019, in Section 2.3; and forecast to 2024 in section 11.7.

Graphene Oxide Solution

Graphene Oxide Powder

Segmentation by application: breakdown data from 2014 to 2019, in Section 2.4; and forecast to 2024 in section 11.8.

Transparent Conductive Films

Composites

Energy-Related Materials

Biology and Medicine

Others

This report also splits the market by region: Breakdown data in Chapter 4, 5, 6, 7 and 8.

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report: Breakdown data in in Chapter 3.

Global Graphene Group

Graphenea

Garmor

ACS Material

Cheap Tubes

The Sixth Element Materials

BGT Materials

UNIPL

Allightec

E WAY Technology

LeaderNano

Nanoinnova

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

## **RESEARCH OBJECTIVES**

To study and analyze the global Global Graphene Oxide (GO) consumption (value & volume) by key regions/countries, product type and application, history data from 2014 to 2018, and forecast to 2024.

To understand the structure of Global Graphene Oxide (GO) market by identifying its various subsegments.

Focuses on the key global Global Graphene Oxide (GO) manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Global Graphene Oxide (GO) with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Global Graphene Oxide (GO) submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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