

**Europe Advanced Carbon Materials Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product Type [Graphite (Natural Graphite and Synthetic Graphite), Carbon Nanotubes (Multi-Walled Carbon Nanotubes and Single-Walled Carbon Nanotubes), Graphene, Carbon Fibers (PAN-Based and PITCH-Based), Carbon Foams and Others] and Application [Electronics and Semiconductors (Integrated Circuits, Flexible Displays, Superconductors, Transistors, Industrial Sensors, and Others), Energy Storage (Lithium-Ion Batteries, Fuel Cells, Solar PV Cells, Hydrogen Storage, Electrochemical Supercapacitors, and Others), Structural Composites (Sporting Goods, Wind Turbine Blades, Light Vehicle or Automotive, Construction and Infrastructure, and Aerospace and Defense), Chemical Materials and Polymers (Coatings Adhesives and Sealants, Water Filtration, Catalysts, and Others), Medical (Transdermal Drug Delivery, Cancer Treatment, Proteomics, and Others), and Others]**

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## Abstracts

The Europe advanced carbon materials market is projected to grow significantly, reaching an estimated US\$ 4,149.09 million by 2031, up from US\$ 2,272.55 million in 2023. This growth represents a compound annual growth rate (CAGR) of 7.8% from 2023 to 2031. The expansion of the structural composites industry in Europe is primarily driven by increasing demand from the automotive and construction sectors.

In 2023, the automotive sector accounted for 8% of the European manufacturing industry, with 255 production facilities generating 14.8 million vehicles, including 12.2 million cars. The European Union has set an ambitious target for all new vehicles to be zero-emission by 2035, which is propelling the demand for lightweight vehicles. This shift towards lightweight automobiles is crucial for meeting emissions targets and improving fuel efficiency. Additionally, ongoing offshore and onshore wind energy projects in the region are further stimulating the demand for advanced carbon materials, particularly in the production of wind turbine blades.

The energy storage sector is also experiencing rapid growth in Europe. In 2023, approximately 10.1 gigawatts of energy storage capacity was installed across both EU and non-EU countries, a significant increase from 4.5 gigawatts in the previous year. This surge in energy storage installations is driving the demand for advanced carbon materials, which are essential for various energy storage applications.

### Market Segmentation

The Europe advanced carbon materials market can be segmented based on product type and application.

**Product Type:** The market includes several key segments such as graphite, carbon nanotubes, graphene, carbon foams, and others. In 2023, the graphite segment held the largest market share, which is further divided into natural and synthetic graphite. The carbon nanotubes segment is categorized into multi-walled and single-walled carbon nanotubes, while the graphene segment is divided into PAN-based and PITCH-based graphene.

**Application:** The market is also segmented by application, including electronics and semiconductors, energy storage, structural composites, chemical materials and polymers, medical applications, and others. The energy storage segment was the largest in 2023, with further subdivisions into lithium-ion batteries, fuel cells, solar PV

cells, hydrogen storage, and electrochemical supercapacitors. The structural composites segment includes applications in sporting goods, wind turbine blades, automotive, construction, and aerospace.

## Market Dynamics

In the automotive and aerospace industries, stringent regulations regarding fuel efficiency and emissions are prompting manufacturers to seek materials that reduce vehicle and aircraft weight without compromising safety or performance. Carbon fiber reinforced polymers (CFRP) are increasingly utilized in the construction of aircraft fuselages and car body panels, as they can reduce drag and fuel consumption by up to 5%. These materials are significantly stronger than traditional materials like steel while being much lighter, which is essential for enhancing fuel efficiency. A 10% reduction in vehicle weight can lead to a 6-8% improvement in fuel economy.

The construction industry is also benefiting from the demand for advanced carbon materials. Carbon fibers and graphene are being integrated into building materials to create lightweight, strong, and durable structures. These materials not only reduce the overall weight of buildings but also enhance their energy efficiency and sustainability. The growing demand for lightweight materials across various industries is accelerating the adoption of advanced carbon materials, which are essential for improving performance, reducing emissions, and promoting sustainability.

## Country Insights

Geographically, the Europe advanced carbon materials market includes Germany, France, Italy, the UK, Russia, and other European countries. Germany held the largest market share in 2023, driven by a rising demand for hydrogen. The German government has implemented several initiatives to bolster the hydrogen industry, including a strategy announced in July 2024 to import hydrogen and its derivatives, such as methanol and ammonia. This strategy aims to enhance domestic hydrogen production and establish a comprehensive network for hydrogen production, import, storage, and consumption, thereby increasing the demand for advanced carbon materials in the country.

## Competitive Landscape

Key players in the Europe advanced carbon materials market include Nanocyl SA, Teijin Ltd, Arkema SA, LG Chem Ltd, Cabot Corp, Kumho Petrochemical Co Ltd, Tokyo

Chemical Industry Co Ltd, Nanoshel LLC, Zeon Corp, Mitsubishi Chemical Carbon Fiber and Composites Inc, Resonac Holdings Corp, Huntsman International LLC, Ocsial, Sumitomo Chemical Co Ltd, and MOLCHEM, among others. These companies are employing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative products to consumers.

In conclusion, the Europe advanced carbon materials market is poised for significant growth, driven by the increasing demand from the automotive, construction, and energy storage sectors, alongside the ongoing push for sustainability and lightweight materials.

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