

# Global Carbon Fiber for Wind Energy Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Carbon Fiber for Wind Energy market size was valued at USD 628.9 million in 2023 and is forecast to a readjusted size of USD 939.1 million by 2030 with a CAGR of 5.9% during review period.

Carbon fiber (CF) is a material consisting of fibers that are 92% or greater carbon. Each CF filament has a diameter on the order of 5 microns to 15 microns. Numerous parallel filaments are typically grouped together into what is referred to as a CF tow. The term tow count refers to the number of filaments per tow and is often expressed with nomenclature such as 24K where the letter K designates the number 1,000. Thus, 24K describes a CF tow having 24,000 filaments. CF having 24,000 or less filaments is referred to as small tow. The most common small-tow product forms are 1K, 3K, 6K, 12K, and 24K tows. Tows having more than 24K filaments are referred to as large tow, with 48K and 50K tows being common large-tow product forms. However, tows with multiple hundreds of thousands filaments are also available. Smalltow material properties, including higher tensile strength and higher modulus when laid or woven into a composite, are superior to large tow and consequently predominately used in industries such as aerospace where high performance is demanded. However, small-tow fibers are more costly than high tow fibers. Another CF classification is by precursor material, which is the multi-element starting material subjected to heat treatment so that nearly all non-carbon atoms are ejected and only carbon remains. Precursor materials include rayon, pitch, and polyacrylonitrile (PAN). The latter, PAN, has more than 96% of the CF market due to its cost-effectiveness and the quality of the fiber produced. Carbon fiber can also be classified as one of three modulus (i.e., a substance's resistance to being deformed elastically when force is applied to it) groups: standard

modulus, intermediate modulus, and high modulus as shown in Table 1. Standard modulus CF has 80%–90% of total market today. Carbon fiber cost has strong positive correlation with modulus. Carbon fiber is also classified by tensile strength, which can be loosely correlated with modulus. Table 1 shows that high-modulus and ultra-high-modulus CF can have lower tensile strength than intermediate modulus as strength declines when undergoing the processes required to achieve high- and ultra-high modulus. Other notable physical properties of carbon fibers include light weight (1.78 grams per cubic centimeter [gm/cc] vs. 8.1 gm/cc for traditional steel), good fatigue resistance and electrical conductivity, chemical inertness, and low coefficient of thermal expansion.

Global key players of Carbon Fiber for Wind Energy include Toray Industries and SGL Carbon, etc. Global top two manufacturers hold a share over 60%. United States is the largest producer of Carbon Fiber for Wind Energy, with a share over 40%, followed by Europe and China.

The Global Info Research report includes an overview of the development of the Carbon Fiber for Wind Energy industry chain, the market status of Onshore Wind Turbine Blades (48K, 24K), Offshore Wind Turbine Blades (48K, 24K), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Carbon Fiber for Wind Energy.

Regionally, the report analyzes the Carbon Fiber for Wind Energy markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Carbon Fiber for Wind Energy market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Carbon Fiber for Wind Energy market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Carbon Fiber for Wind Energy industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by

Type (e.g., 48K, 24K).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Carbon Fiber for Wind Energy market.

**Regional Analysis:** The report involves examining the Carbon Fiber for Wind Energy market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Carbon Fiber for Wind Energy market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Carbon Fiber for Wind Energy:

**Company Analysis:** Report covers individual Carbon Fiber for Wind Energy manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Carbon Fiber for Wind Energy This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Onshore Wind Turbine Blades, Offshore Wind Turbine Blades).

**Technology Analysis:** Report covers specific technologies relevant to Carbon Fiber for Wind Energy. It assesses the current state, advancements, and potential future developments in Carbon Fiber for Wind Energy areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Carbon Fiber for Wind Energy market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through

primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Carbon Fiber for Wind Energy market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

48K

24K

Below 12K

### Market segment by Application

Onshore Wind Turbine Blades

Offshore Wind Turbine Blades

### Major players covered

Toray Industries

SGL Carbon

Tejin

Mitsubishi Chemical

Hexcel

FPC

DowAksa

Zhongfu Shenying

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Fiber for Wind Energy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Fiber for Wind Energy, with price, sales, revenue and global market share of Carbon Fiber for Wind Energy from 2019 to 2024.

Chapter 3, the Carbon Fiber for Wind Energy competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Fiber for Wind Energy breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Carbon Fiber for Wind Energy market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Fiber for Wind Energy.

Chapter 14 and 15, to describe Carbon Fiber for Wind Energy sales channel, distributors, customers, research findings and conclusion.

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