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Global Carbon Fiber for Wind Energy Market Research Report 2024(Status and Outlook)

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Abstracts

Report Overview:

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-

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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.

The Global Carbon Fiber for Wind Energy Market Size was estimated at USD 657.15 million in 2023 and is projected to reach USD 942.78 million by 2029, exhibiting a CAGR of 6.20% during the forecast period.

This report provides a deep insight into the global Carbon Fiber for Wind Energy market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter’s five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Carbon Fiber for Wind Energy Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Carbon Fiber for Wind Energy market in any manner.

Global Carbon Fiber for Wind Energy Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

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Key Company

Toray Industries

SGL Carbon

Tejin

Mitsubishi Chemical

Hexcel

FPC

DowAksa

Zhongfu Shenying

Market Segmentation (by Type)

48K

24K

Below 12K

Market Segmentation (by Application)

Onshore Wind Turbine Blades

Offshore Wind Turbine Blades

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-

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Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Carbon Fiber for Wind Energy Market

Overview of the regional outlook of the Carbon Fiber for Wind Energy Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

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The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter’s five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

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Note: this report may need to undergo a final check or review and this could take about 48 hours.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Carbon Fiber for Wind Energy Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the Market's Competitive Landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share,

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product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

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