

Global Carbon Fiber for Wind Energy Market Research Report 2024, Forecast to 2032

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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-

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 611.20 million in 2023 and is projected to reach USD 1050.28 million by 2032, exhibiting a CAGR of 6.20% during the forecast period.

North America Carbon Fiber for Wind Energy market size was estimated at USD 176.64 million in 2023, at a CAGR of 5.31% during the forecast period of 2024 through 2032.

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, 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.

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-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

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

Provision of market value 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.

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 from the consumer side and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Carbon Fiber for Wind Energy, their output value, profit level, regional supply, production capacity layout, etc. from the

supply side.

Chapter 10 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, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region during the forecast period.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment during the forecast period.

Chapter 13 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Carbon Fiber for Wind Energy

1.2 Key Market Segments

1.2.1 Carbon Fiber for Wind Energy Segment by Type

1.2.2 Carbon Fiber for Wind Energy Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 CARBON FIBER FOR WIND ENERGY MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Carbon Fiber for Wind Energy Market Size (M USD) Estimates and Forecasts (2019-2032)

2.1.2 Global Carbon Fiber for Wind Energy Sales Estimates and Forecasts (2019-2032)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 CARBON FIBER FOR WIND ENERGY MARKET COMPETITIVE LANDSCAPE

3.1 Global Carbon Fiber for Wind Energy Sales by Manufacturers (2019-2024)

3.2 Global Carbon Fiber for Wind Energy Revenue Market Share by Manufacturers (2019-2024)

3.3 Carbon Fiber for Wind Energy Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global Carbon Fiber for Wind Energy Average Price by Manufacturers (2019-2024)

3.5 Manufacturers Carbon Fiber for Wind Energy Sales Sites, Area Served, Product Type

3.6 Carbon Fiber for Wind Energy Market Competitive Situation and Trends

3.6.1 Carbon Fiber for Wind Energy Market Concentration Rate

3.6.2 Global 5 and 10 Largest Carbon Fiber for Wind Energy Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 CARBON FIBER FOR WIND ENERGY INDUSTRY CHAIN ANALYSIS

4.1 Carbon Fiber for Wind Energy Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF CARBON FIBER FOR WIND ENERGY MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

6 CARBON FIBER FOR WIND ENERGY MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Carbon Fiber for Wind Energy Sales Market Share by Type (2019-2024)

6.3 Global Carbon Fiber for Wind Energy Market Size Market Share by Type (2019-2024)

6.4 Global Carbon Fiber for Wind Energy Price by Type (2019-2024)

7 CARBON FIBER FOR WIND ENERGY MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Carbon Fiber for Wind Energy Market Sales by Application (2019-2024)

7.3 Global Carbon Fiber for Wind Energy Market Size (M USD) by Application (2019-2024)

7.4 Global Carbon Fiber for Wind Energy Sales Growth Rate by Application

(2019-2024)

8 CARBON FIBER FOR WIND ENERGY MARKET CONSUMPTION BY REGION

8.1 Global Carbon Fiber for Wind Energy Sales by Region

8.1.1 Global Carbon Fiber for Wind Energy Sales by Region

8.1.2 Global Carbon Fiber for Wind Energy Sales Market Share by Region

8.2 North America

8.2.1 North America Carbon Fiber for Wind Energy Sales by Country

8.2.2 U.S.

8.2.3 Canada

8.2.4 Mexico

8.3 Europe

8.3.1 Europe Carbon Fiber for Wind Energy Sales by Country

8.3.2 Germany

8.3.3 France

8.3.4 U.K.

8.3.5 Italy

8.3.6 Russia

8.4 Asia Pacific

8.4.1 Asia Pacific Carbon Fiber for Wind Energy Sales by Region

8.4.2 China

8.4.3 Japan

8.4.4 South Korea

8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America Carbon Fiber for Wind Energy Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa Carbon Fiber for Wind Energy Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

9 CARBON FIBER FOR WIND ENERGY MARKET PRODUCTION BY REGION

9.1 Global Production of Carbon Fiber for Wind Energy by Region (2019-2024)

9.2 Global Carbon Fiber for Wind Energy Revenue Market Share by Region (2019-2024)

9.3 Global Carbon Fiber for Wind Energy Production, Revenue, Price and Gross Margin (2019-2024)

9.4 North America Carbon Fiber for Wind Energy Production

9.4.1 North America Carbon Fiber for Wind Energy Production Growth Rate (2019-2024)

9.4.2 North America Carbon Fiber for Wind Energy Production, Revenue, Price and Gross Margin (2019-2024)

9.5 Europe Carbon Fiber for Wind Energy Production

9.5.1 Europe Carbon Fiber for Wind Energy Production Growth Rate (2019-2024)

9.5.2 Europe Carbon Fiber for Wind Energy Production, Revenue, Price and Gross Margin (2019-2024)

9.6 Japan Carbon Fiber for Wind Energy Production (2019-2024)

9.6.1 Japan Carbon Fiber for Wind Energy Production Growth Rate (2019-2024)

9.6.2 Japan Carbon Fiber for Wind Energy Production, Revenue, Price and Gross Margin (2019-2024)

9.7 China Carbon Fiber for Wind Energy Production (2019-2024)

9.7.1 China Carbon Fiber for Wind Energy Production Growth Rate (2019-2024)

9.7.2 China Carbon Fiber for Wind Energy Production, Revenue, Price and Gross Margin (2019-2024)

10 KEY COMPANIES PROFILE

10.1 Toray Industries

10.1.1 Toray Industries Carbon Fiber for Wind Energy Basic Information

10.1.2 Toray Industries Carbon Fiber for Wind Energy Product Overview

10.1.3 Toray Industries Carbon Fiber for Wind Energy Product Market Performance

10.1.4 Toray Industries Business Overview

10.1.5 Toray Industries Carbon Fiber for Wind Energy SWOT Analysis

10.1.6 Toray Industries Recent Developments

10.2 SGL Carbon

10.2.1 SGL Carbon Carbon Fiber for Wind Energy Basic Information

10.2.2 SGL Carbon Carbon Fiber for Wind Energy Product Overview

10.2.3 SGL Carbon Carbon Fiber for Wind Energy Product Market Performance

10.2.4 SGL Carbon Business Overview

10.2.5 SGL Carbon Carbon Fiber for Wind Energy SWOT Analysis

10.2.6 SGL Carbon Recent Developments

10.3 Tejin

10.3.1 Tejin Carbon Fiber for Wind Energy Basic Information

10.3.2 Tejin Carbon Fiber for Wind Energy Product Overview

10.3.3 Tejin Carbon Fiber for Wind Energy Product Market Performance

10.3.4 Tejin Carbon Fiber for Wind Energy SWOT Analysis

10.3.5 Tejin Business Overview

10.3.6 Tejin Recent Developments

10.4 Mitsubishi Chemical

10.4.1 Mitsubishi Chemical Carbon Fiber for Wind Energy Basic Information

10.4.2 Mitsubishi Chemical Carbon Fiber for Wind Energy Product Overview

10.4.3 Mitsubishi Chemical Carbon Fiber for Wind Energy Product Market

Performance

10.4.4 Mitsubishi Chemical Business Overview

10.4.5 Mitsubishi Chemical Recent Developments

10.5 Hexcel

10.5.1 Hexcel Carbon Fiber for Wind Energy Basic Information

10.5.2 Hexcel Carbon Fiber for Wind Energy Product Overview

10.5.3 Hexcel Carbon Fiber for Wind Energy Product Market Performance

10.5.4 Hexcel Business Overview

10.5.5 Hexcel Recent Developments

10.6 FPC

10.6.1 FPC Carbon Fiber for Wind Energy Basic Information

10.6.2 FPC Carbon Fiber for Wind Energy Product Overview

10.6.3 FPC Carbon Fiber for Wind Energy Product Market Performance

10.6.4 FPC Business Overview

10.6.5 FPC Recent Developments

10.7 DowAksa

10.7.1 DowAksa Carbon Fiber for Wind Energy Basic Information

10.7.2 DowAksa Carbon Fiber for Wind Energy Product Overview

10.7.3 DowAksa Carbon Fiber for Wind Energy Product Market Performance

10.7.4 DowAksa Business Overview

10.7.5 DowAksa Recent Developments

10.8 Zhongfu Shenying

10.8.1 Zhongfu Shenying Carbon Fiber for Wind Energy Basic Information

10.8.2 Zhongfu Shenying Carbon Fiber for Wind Energy Product Overview

10.8.3 Zhongfu Shenying Carbon Fiber for Wind Energy Product Market Performance

10.8.4 Zhongfu Shenying Business Overview

10.8.5 Zhongfu Shenying Recent Developments

11 CARBON FIBER FOR WIND ENERGY MARKET FORECAST BY REGION

11.1 Global Carbon Fiber for Wind Energy Market Size Forecast

11.2 Global Carbon Fiber for Wind Energy Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Carbon Fiber for Wind Energy Market Size Forecast by Country

11.2.3 Asia Pacific Carbon Fiber for Wind Energy Market Size Forecast by Region

11.2.4 South America Carbon Fiber for Wind Energy Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Consumption of Carbon Fiber for Wind Energy by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2032)

12.1 Global Carbon Fiber for Wind Energy Market Forecast by Type (2025-2032)

12.1.1 Global Forecasted Sales of Carbon Fiber for Wind Energy by Type (2025-2032)

12.1.2 Global Carbon Fiber for Wind Energy Market Size Forecast by Type (2025-2032)

12.1.3 Global Forecasted Price of Carbon Fiber for Wind Energy by Type (2025-2032)

12.2 Global Carbon Fiber for Wind Energy Market Forecast by Application (2025-2032)

12.2.1 Global Carbon Fiber for Wind Energy Sales (K Units) Forecast by Application

12.2.2 Global Carbon Fiber for Wind Energy Market Size (M USD) Forecast by Application (2025-2032)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Carbon Fiber for Wind Energy Market Size Comparison by Region (M USD)

Table 5. Global Carbon Fiber for Wind Energy Sales (K Units) by Manufacturers
(2019-2024)

Table 6. Global Carbon Fiber for Wind Energy Sales Market Share by Manufacturers
(2019-2024)

Table 7. Global Carbon Fiber for Wind Energy Revenue (M USD) by Manufacturers
(2019-2024)

Table 8. Global Carbon Fiber for Wind Energy Revenue Share by Manufacturers
(2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Carbon
Fiber for Wind Energy as of 2022)

Table 10. Global Market Carbon Fiber for Wind Energy Average Price (USD/Unit) of
Key Manufacturers (2019-2024)

Table 11. Manufacturers Carbon Fiber for Wind Energy Sales Sites and Area Served

Table 12. Manufacturers Carbon Fiber for Wind Energy Product Type

Table 13. Global Carbon Fiber for Wind Energy Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Carbon Fiber for Wind Energy

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Carbon Fiber for Wind Energy Market Challenges

Table 22. Global Carbon Fiber for Wind Energy Sales by Type (K Units)

Table 23. Global Carbon Fiber for Wind Energy Market Size by Type (M USD)

Table 24. Global Carbon Fiber for Wind Energy Sales (K Units) by Type (2019-2024)

Table 25. Global Carbon Fiber for Wind Energy Sales Market Share by Type
(2019-2024)

Table 26. Global Carbon Fiber for Wind Energy Market Size (M USD) by Type
(2019-2024)

Table 27. Global Carbon Fiber for Wind Energy Market Size Share by Type (2019-2024)

Table 28. Global Carbon Fiber for Wind Energy Price (USD/Unit) by Type (2019-2024)

Table 29. Global Carbon Fiber for Wind Energy Sales (K Units) by Application

Table 30. Global Carbon Fiber for Wind Energy Market Size by Application

Table 31. Global Carbon Fiber for Wind Energy Sales by Application (2019-2024) & (K Units)

Table 32. Global Carbon Fiber for Wind Energy Sales Market Share by Application (2019-2024)

Table 33. Global Carbon Fiber for Wind Energy Sales by Application (2019-2024) & (M USD)

Table 34. Global Carbon Fiber for Wind Energy Market Share by Application (2019-2024)

Table 35. Global Carbon Fiber for Wind Energy Sales Growth Rate by Application (2019-2024)

Table 36. Global Carbon Fiber for Wind Energy Sales by Region (2019-2024) & (K Units)

Table 37. Global Carbon Fiber for Wind Energy Sales Market Share by Region (2019-2024)

Table 38. North America Carbon Fiber for Wind Energy Sales by Country (2019-2024) & (K Units)

Table 39. Europe Carbon Fiber for Wind Energy Sales by Country (2019-2024) & (K Units)

Table 40. Asia Pacific Carbon Fiber for Wind Energy Sales by Region (2019-2024) & (K Units)

Table 41. South America Carbon Fiber for Wind Energy Sales by Country (2019-2024) & (K Units)

Table 42. Middle East and Africa Carbon Fiber for Wind Energy Sales by Region (2019-2024) & (K Units)

Table 43. Global Carbon Fiber for Wind Energy Production (K Units) by Region (2019-2024)

Table 44. Global Carbon Fiber for Wind Energy Revenue (US\$ Million) by Region (2019-2024)

Table 45. Global Carbon Fiber for Wind Energy Revenue Market Share by Region (2019-2024)

Table 46. Global Carbon Fiber for Wind Energy Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 47. North America Carbon Fiber for Wind Energy Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 48. Europe Carbon Fiber for Wind Energy Production (K Units), Revenue (US\$

Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 49. Japan Carbon Fiber for Wind Energy Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 50. China Carbon Fiber for Wind Energy Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 51. Toray Industries Carbon Fiber for Wind Energy Basic Information

Table 52. Toray Industries Carbon Fiber for Wind Energy Product Overview

Table 53. Toray Industries Carbon Fiber for Wind Energy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 54. Toray Industries Business Overview

Table 55. Toray Industries Carbon Fiber for Wind Energy SWOT Analysis

Table 56. Toray Industries Recent Developments

Table 57. SGL Carbon Carbon Fiber for Wind Energy Basic Information

Table 58. SGL Carbon Carbon Fiber for Wind Energy Product Overview

Table 59. SGL Carbon Carbon Fiber for Wind Energy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 60. SGL Carbon Business Overview

Table 61. SGL Carbon Carbon Fiber for Wind Energy SWOT Analysis

Table 62. SGL Carbon Recent Developments

Table 63. Tejin Carbon Fiber for Wind Energy Basic Information

Table 64. Tejin Carbon Fiber for Wind Energy Product Overview

Table 65. Tejin Carbon Fiber for Wind Energy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 66. Tejin Carbon Fiber for Wind Energy SWOT Analysis

Table 67. Tejin Business Overview

Table 68. Tejin Recent Developments

Table 69. Mitsubishi Chemical Carbon Fiber for Wind Energy Basic Information

Table 70. Mitsubishi Chemical Carbon Fiber for Wind Energy Product Overview

Table 71. Mitsubishi Chemical Carbon Fiber for Wind Energy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 72. Mitsubishi Chemical Business Overview

Table 73. Mitsubishi Chemical Recent Developments

Table 74. Hexcel Carbon Fiber for Wind Energy Basic Information

Table 75. Hexcel Carbon Fiber for Wind Energy Product Overview

Table 76. Hexcel Carbon Fiber for Wind Energy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 77. Hexcel Business Overview

Table 78. Hexcel Recent Developments

Table 79. FPC Carbon Fiber for Wind Energy Basic Information

Table 80. FPC Carbon Fiber for Wind Energy Product Overview
Table 81. FPC Carbon Fiber for Wind Energy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
Table 82. FPC Business Overview
Table 83. FPC Recent Developments
Table 84. DowAksa Carbon Fiber for Wind Energy Basic Information
Table 85. DowAksa Carbon Fiber for Wind Energy Product Overview
Table 86. DowAksa Carbon Fiber for Wind Energy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
Table 87. DowAksa Business Overview
Table 88. DowAksa Recent Developments
Table 89. Zhongfu Shenying Carbon Fiber for Wind Energy Basic Information
Table 90. Zhongfu Shenying Carbon Fiber for Wind Energy Product Overview
Table 91. Zhongfu Shenying Carbon Fiber for Wind Energy Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
Table 92. Zhongfu Shenying Business Overview
Table 93. Zhongfu Shenying Recent Developments
Table 94. Global Carbon Fiber for Wind Energy Sales Forecast by Region (2025-2032) & (K Units)
Table 95. Global Carbon Fiber for Wind Energy Market Size Forecast by Region (2025-2032) & (M USD)
Table 96. North America Carbon Fiber for Wind Energy Sales Forecast by Country (2025-2032) & (K Units)
Table 97. North America Carbon Fiber for Wind Energy Market Size Forecast by Country (2025-2032) & (M USD)
Table 98. Europe Carbon Fiber for Wind Energy Sales Forecast by Country (2025-2032) & (K Units)
Table 99. Europe Carbon Fiber for Wind Energy Market Size Forecast by Country (2025-2032) & (M USD)
Table 100. Asia Pacific Carbon Fiber for Wind Energy Sales Forecast by Region (2025-2032) & (K Units)
Table 101. Asia Pacific Carbon Fiber for Wind Energy Market Size Forecast by Region (2025-2032) & (M USD)
Table 102. South America Carbon Fiber for Wind Energy Sales Forecast by Country (2025-2032) & (K Units)
Table 103. South America Carbon Fiber for Wind Energy Market Size Forecast by Country (2025-2032) & (M USD)
Table 104. Middle East and Africa Carbon Fiber for Wind Energy Consumption Forecast by Country (2025-2032) & (Units)

Table 105. Middle East and Africa Carbon Fiber for Wind Energy Market Size Forecast by Country (2025-2032) & (M USD)

Table 106. Global Carbon Fiber for Wind Energy Sales Forecast by Type (2025-2032) & (K Units)

Table 107. Global Carbon Fiber for Wind Energy Market Size Forecast by Type (2025-2032) & (M USD)

Table 108. Global Carbon Fiber for Wind Energy Price Forecast by Type (2025-2032) & (USD/Unit)

Table 109. Global Carbon Fiber for Wind Energy Sales (K Units) Forecast by Application (2025-2032)

Table 110. Global Carbon Fiber for Wind Energy Market Size Forecast by Application (2025-2032) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Carbon Fiber for Wind Energy
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Carbon Fiber for Wind Energy Market Size (M USD), 2019-2032
- Figure 5. Global Carbon Fiber for Wind Energy Market Size (M USD) (2019-2032)
- Figure 6. Global Carbon Fiber for Wind Energy Sales (K Units) & (2019-2032)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Carbon Fiber for Wind Energy Market Size by Country (M USD)
- Figure 11. Carbon Fiber for Wind Energy Sales Share by Manufacturers in 2023
- Figure 12. Global Carbon Fiber for Wind Energy Revenue Share by Manufacturers in 2023
- Figure 13. Carbon Fiber for Wind Energy Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market Carbon Fiber for Wind Energy Average Price (USD/Unit) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Carbon Fiber for Wind Energy Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Carbon Fiber for Wind Energy Market Share by Type
- Figure 18. Sales Market Share of Carbon Fiber for Wind Energy by Type (2019-2024)
- Figure 19. Sales Market Share of Carbon Fiber for Wind Energy by Type in 2023
- Figure 20. Market Size Share of Carbon Fiber for Wind Energy by Type (2019-2024)
- Figure 21. Market Size Market Share of Carbon Fiber for Wind Energy by Type in 2023
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global Carbon Fiber for Wind Energy Market Share by Application
- Figure 24. Global Carbon Fiber for Wind Energy Sales Market Share by Application (2019-2024)
- Figure 25. Global Carbon Fiber for Wind Energy Sales Market Share by Application in 2023
- Figure 26. Global Carbon Fiber for Wind Energy Market Share by Application (2019-2024)
- Figure 27. Global Carbon Fiber for Wind Energy Market Share by Application in 2023
- Figure 28. Global Carbon Fiber for Wind Energy Sales Growth Rate by Application

(2019-2024)

Figure 29. Global Carbon Fiber for Wind Energy Sales Market Share by Region

(2019-2024)

Figure 30. North America Carbon Fiber for Wind Energy Sales and Growth Rate

(2019-2024) & (K Units)

Figure 31. North America Carbon Fiber for Wind Energy Sales Market Share by Country in 2023

Figure 32. U.S. Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada Carbon Fiber for Wind Energy Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico Carbon Fiber for Wind Energy Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe Carbon Fiber for Wind Energy Sales Market Share by Country in 2023

Figure 37. Germany Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific Carbon Fiber for Wind Energy Sales and Growth Rate (K Units)

Figure 43. Asia Pacific Carbon Fiber for Wind Energy Sales Market Share by Region in 2023

Figure 44. China Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia Carbon Fiber for Wind Energy Sales and Growth Rate

(2019-2024) & (K Units)

Figure 49. South America Carbon Fiber for Wind Energy Sales and Growth Rate (K Units)

Figure 50. South America Carbon Fiber for Wind Energy Sales Market Share by Country in 2023

Figure 51. Brazil Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa Carbon Fiber for Wind Energy Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa Carbon Fiber for Wind Energy Sales Market Share by Region in 2023

Figure 56. Saudi Arabia Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa Carbon Fiber for Wind Energy Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global Carbon Fiber for Wind Energy Production Market Share by Region (2019-2024)

Figure 62. North America Carbon Fiber for Wind Energy Production (K Units) Growth Rate (2019-2024)

Figure 63. Europe Carbon Fiber for Wind Energy Production (K Units) Growth Rate (2019-2024)

Figure 64. Japan Carbon Fiber for Wind Energy Production (K Units) Growth Rate (2019-2024)

Figure 65. China Carbon Fiber for Wind Energy Production (K Units) Growth Rate (2019-2024)

Figure 66. Global Carbon Fiber for Wind Energy Sales Forecast by Volume (2019-2032) & (K Units)

Figure 67. Global Carbon Fiber for Wind Energy Market Size Forecast by Value (2019-2032) & (M USD)

Figure 68. Global Carbon Fiber for Wind Energy Sales Market Share Forecast by Type (2025-2032)

Figure 69. Global Carbon Fiber for Wind Energy Market Share Forecast by Type (2025-2032)

Figure 70. Global Carbon Fiber for Wind Energy Sales Forecast by Application (2025-2032)

Figure 71. Global Carbon Fiber for Wind Energy Market Share Forecast by Application (2025-2032)

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