

# Global Carbon Fiber for Wind Energy Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Carbon Fiber for Wind Energy market size will reach 796.79 Million USD in 2025 and is projected to reach 1,207.60 Million USD by 2032, with a CAGR of 6.12% (2025-2032). Notably, the China Carbon Fiber for Wind Energy market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Carbon fiber plays a crucial role in the wind energy industry, particularly in the construction of wind turbine blades. Wind turbine blades need to be strong, lightweight, and durable to efficiently convert wind energy into electricity. Carbon fiber composites provide the desired characteristics for these blades. The carbon fiber reinforcement imparts high strength and stiffness, allowing the blades to withstand the dynamic forces of wind and maintain optimal aerodynamic performance. Carbon fiber's low weight enables longer and larger blade designs, capturing more wind energy. Moreover, carbon fiber composites exhibit excellent fatigue resistance, reducing maintenance and ensuring the longevity of the blades. The use of carbon fiber in wind energy enables the development of more efficient and reliable wind turbines, contributing to the growth of renewable energy generation and the reduction of greenhouse gas emissions.

The major global manufacturers of Carbon Fiber for Wind Energy include Toray Industries, SGL Carbon, Tejin, Mitsubishi Chemical, Hexcel, DowAksa, FPC, Zhongfu Shenyang, etc. The global players competition landscape in this report is divided into

three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Carbon Fiber for Wind Energy. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Carbon Fiber for Wind Energy market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Carbon Fiber for Wind Energy market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Carbon Fiber for Wind Energy industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Carbon Fiber for Wind Energy Include:

Toray Industries

SGL Carbon

Tejin

Mitsubishi Chemical

Hexcel

DowAksa

FPC

Zhongfu Shenyang

Carbon Fiber for Wind Energy Product Segment Include:

48K

24K

Below 12K

Carbon Fiber for Wind Energy Product Application Include:

Onshore Wind Turbine Blades

Offshore Wind Turbine Blades

## **Chapter Scope**

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