

# The Global Market for Carbon Fibers to 2025

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## Abstracts

Carbon fiber (CF) is used as a reinforcement material in composites. Carbon fiber reinforced plastic (CFRP) composites, offer a higher strength-to-weight ratio and stiffness-to-weight ratio than many structural materials. Lightweight, high-strength, and high-stiffness composite materials are crucial for the development of an energy efficient transportation industry, enabling vastly improved power generation, new mechanisms for storing and transporting reduced carbon fuels, and enhancing renewable power production.

They are also increasingly used in wind turbines, aerospace (commercial and military aircraft, space launch vehicles), and pressure vessel industries for increased strength to weight and stiffness. Other markets are sports & leisure composites (skis and snowboards, bicycles and hockey sticks) and construction. Their demand in aviation and automotive industries is growing fast, especially in Asia.

Demand for CF will continue to grow, with global demand exceeding 77,000 tons in 2018 and growing to more than 150,000 tons by 2025. Combined global production capacity is currently more than 140,000 tons.

A number of producers have increased capacity in 2018, and Kangde (66,000 tons), Toray (62,000 tons) and SGL Group (49,000 tons) will greatly grow their capacity over the next few years. Other companies with expansion plans include Hexcel, DowAska and Hyosung. Toray purchased CF components manufacturer TenCate Advanced Composites Holding in March 2018 for \$1 billion.

Report contents include:

In depth technology assessment including materials, manufacturing methods and competitive landscape.

Quantitative carbon fiber market forecasts to 2025, globally, by end users markets and regions.

Global production capacities, by producer, current and planned.

Market trends 2016-2018 including deals, mergers, acquisitions and all major news.

Market drivers challenges, by end user markets.

In-depth key player profiles, include products, current capacities and plans for new capacities. Companies profiled include Toray, Hexcel, DowAska, Hyosung and Mitsubishi

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