

South America Green Carbon Fiber Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Chopper Recycled Carbon Fiber and Milled Recycled Carbon Fiber), Source (Automotive Scrap, Aerospace Scrap, and Others), and Application (Aerospace, Automotive, Wind Energy, Sporting Goods, and Others)

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Abstracts

The South America green carbon fiber market was valued at US\$ 7.32 million in 2022 and is expected to reach US\$ 12.01 million by 2028. It is estimated to register a CAGR of 8.6% from 2022 to 2028.

Increase in Use of Green Carbon Fiber in Wind Energy Industry in South America Green Carbon Fiber Market

The demand for wind turbines is increasing rapidly as the world shifts away from climate-damaging, nonrenewable fossil fuels toward clean, renewable energy sources. Also, the rising electricity rate is pushing the need for renewable energy sources. The wind energy market is growing as governments are taking initiatives to produce renewable energy. Increase in demand for renewable energy sources, especially wind energy, and efforts to reduce the dependence on fossil fuel-based power generation are significant factors for the growth of the wind energy market. Governments provide many tax benefits and incentives, which are helping reduce the components' prices, thereby boosting the growth of the wind turbine market. Polymers reinforced with virgin carbon fibers (VCF) are being used to make spar caps of wind turbine blades, and polymers with glass fibers are used to make skins of the blade components. Using recycled carbon fibers for wind turbine blade parts can be mechanically feasible and offer

significant environmental benefits over glass fibers. These characteristic properties of carbon fiber have helped in producing better wind blade turbines and higher energy production. Therefore, the increasing use of green carbon fibers in the wind energy industry is propelling the market growth.

South America Green Carbon Fiber Market Overview

The automotive industry in South America is witnessing rapid growth as the demand for commercial and personal vehicles is increasing across the region. According to the Brazilian Institute of Geography and Statistics, the production of motor vehicles in Brazil accounted for 2.9 million in 2019. Further, the growth of the automotive carbon composite industry in Brazil is attributed to the large presence of small and large companies, including molding, fabrication, and material suppliers, such as Elekeiroz, Embrapol, Cromitec, and Fiacbras. Also, the automotive sector in the region is witnessing increased private investments, which boosts the sector's development. This factor provides lucrative opportunities to the green carbon fiber market players as the demand for sustainable and environment-friendly technologies and materials has increased across the region. Also, increasing demand for high-performance sporting equipment is expected to drive the green carbon fiber market growth across the region over the forecast period. The high tensile strength and stiffness combined with the lightweight property of recycled carbon fiber have been a significant driver for its application in sporting goods.

South America Green Carbon Fiber market Revenue and Forecast to 2028 (US\$ Million)

South America Green Carbon Fiber market Segmentation

The South America green carbon fiber market is segmented on the basis of type, source, application, and country. On the basis of type, the South America green carbon fiber market is segmented into chopped recycled carbon fiber and milled recycled carbon fiber. The milled recycled carbon fiber segment registered the largest market share in 2022.

Based on source, the South America green carbon fiber market is further segmented into automotive scrap, aerospace scrap, and others. The automotive scrap segment registered the largest market share in 2022.

Based on application, the South America green carbon fiber market is further

segmented into aerospace, automotive, wind energy, sporting goods, and others. The wind energy segment registered the largest market share in 2022.

Based on country, the South America green carbon fiber market is segmented into Brazil, Argentina, and the Rest of South America. Brazil dominated the market share in 2022.

Carbon Conversions Co, Catack-H Co Ltd, Procotex Corp SA, SGL Carbon SE, Sigmatex (UK) Ltd., and Toray Industries Inc are the leading companies operating in the South America green carbon fiber market.

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