

Recycled Carbon Fiber Market: Trends, Opportunities and Competitive Analysis [2024-2030]

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Abstracts

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Recycled Carbon Fiber Market Trends and Forecast

The future of the global recycled carbon fiber market looks promising with opportunities in the transportation, aerospace, consumer electronics, and sporting goods industries. The global recycled carbon fiber market is expected to reach an estimated \$103 million by 2030 with a CAGR of 8% from 2023 to 2030. The major drivers for this market are regulations for reuse & recyclability of materials and the cost advantage of recycled carbon fiber compared to virgin carbon fiber.

Lucintel forecasts that transportation will remain the largest end use over the forecast period due to increasing demand for lightweight, cost-effective materials. Sporting good is expected to witness the highest growth over the forecast period.

Non-woven mats will remain the largest product type and it is also expected to witness the highest growth over the forecast period due to the growing demand for low cost, recycled carbon fiber in structural applications.

Europe is expected to remain the largest region over the forecast period. APAC is expected to witness highest growth over the forecast period.

Europe is expected to remain the largest region in the Recycled Carbon Fiber Market

1. **United States:** Companies like Carbon Conversions and ELG Carbon Fibre are leading the way in recycling carbon fiber in the US market. Initiatives such as the National Composites Centre (NCC) promote the use of recycled carbon fiber in various industries. The US government supports research and development in sustainable materials through agencies like the Department of Energy (DOE).
2. **Germany:** German companies like SGL Carbon and Cevotec GmbH are pioneers in recycled carbon fiber technology. Initiatives such as the Carbon Composites e.V. (CCeV) promote the development of recycled carbon fiber composites. The German Federal Ministry for Economic Affairs and Climate Action supports initiatives for sustainable materials development.
3. **China:** Chinese companies like Shenzhen Senior Technology Material Co., Ltd. and Suzhou Jiuding New Material Co., Ltd. are investing in recycled carbon fiber production. Government initiatives such as the China Association of Resource Comprehensive Utilization promote the recycling and reuse of carbon fiber materials. The Ministry of Ecology and Environment oversees regulations for recycling industries.
4. **Japan:** Japanese companies like Teijin Limited and Toray Industries, Inc. are at the forefront of recycled carbon fiber innovation. Initiatives such as the Japan Carbon Fiber Manufacturers Association (JCMA) promote the sustainable use of carbon fiber materials. The Ministry of Economy, Trade and Industry (METI) supports initiatives for resource recycling and environmental sustainability.
5. **United Kingdom:** UK companies like ELG Carbon Fibre Ltd and RE:CYCLE Ltd are driving advancements in recycled carbon fiber technology. Initiatives such as the National Composites Centre (NCC) support research and development in recycled carbon fiber composites. The UK government promotes sustainable materials through initiatives like the Industrial Strategy Challenge Fund.

Emerging Trends in the Recycled Carbon Fiber Market

Emerging trends, which have a direct impact on the dynamics of the industry, include the development of various processes and methods to reduce energy consumption and cost during recycling process

A total of 110 figures / charts and 75 tables are provided in this 182 page report to help in your business decisions. A sample figure with insights is shown below.

Recycled Carbon Fiber Market by Segment

The study includes a forecast for the global recycled carbon fiber market by end use, product type, and region as follows:

Recycled Carbon Fiber Market by End Use [Value (\$M) and Volume (M lbs) Shipment Analysis for 2018 – 2030]:

Transportation

Aerospace

Consumer Electronics

Sporting Goods

Others

Recycled Carbon Fiber Market by Product Type [Value (\$M) and Volume (M lbs) Shipment Analysis for 2018 – 2030]:

Non Woven Mats

Chopped Carbon Fiber

Milled Carbon Fiber

Recycled Carbon Fiber Market by Region [Value (\$M) and Volume (M lbs) Shipment Analysis for 2018 – 2030]:

North America

Europe

Asia Pacific

The Rest of the World

List of Recycled Carbon Fiber Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies recycled carbon fiber companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the recycled carbon fiber companies profiled in this report include.

Procotex

Gen 2 Carbon (Carbon Fiber Ltd).

SGL Carbon

CFK Valley Recycling

Carbon Conversion Inc.

Vartega

Toray

Karborek

Recent Developments in Recycled Carbon Fiber Market

Expansion of Recycling Facilities: Companies specializing in recycled carbon fiber are expanding their recycling facilities to meet the growing demand for sustainable materials in industries such as automotive, aerospace, and wind energy. SGL Carbon, for example, has announced plans to expand its

carbon fiber recycling capacity in Europe.

Partnerships for Advanced Recycling Technologies: Collaboration between companies and research institutions is driving advancements in recycling technologies for carbon fiber composites. Partnerships such as the one between ELG Carbon Fibre and the University of Nottingham aim to develop innovative methods for recycling end-of-life carbon fiber materials.

Demand for Sustainable Materials in Automotive Industry: The automotive industry's shift towards sustainability and lightweighting is driving the demand for recycled carbon fiber materials. Companies like BMW are incorporating recycled carbon fiber into their production processes to reduce environmental impact and improve fuel efficiency.

Certification of Recycled Carbon Fiber Products: Certification programs such as the Carbon Trust's Carbon Footprint Standard are gaining traction in the recycled carbon fiber market. These certifications verify the environmental credentials of recycled carbon fiber products, providing assurance to consumers and facilitating market adoption.

Investments in Circular Economy Initiatives: Governments and industry stakeholders are investing in circular economy initiatives to promote the recycling and reuse of carbon fiber materials. Funding programs and research projects focused on carbon fiber recycling, such as the EU-funded RECOTRANS project, aim to develop sustainable solutions for the carbon fiber industry.

Features of Recycled Carbon Fiber Market

Market Size Estimates: Recycled carbon fiber market size estimation in terms of value (\$M) and (M lbs) by volume.

Trend and Forecast Analysis: Market trends (2018-2023) and forecast (2024-2030) by various segments and regions.

Segmentation Analysis: Market size by end use, product type and region.

Regional Analysis: Recycled carbon fiber market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different end use, product type and regions for the recycled carbon fiber market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the recycled carbon fiber market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q1. What is the recycled carbon fiber market size?

Answer:The global recycled carbon fiber market is expected to reach an estimated \$103 million by 2030.

Q2. What is the growth forecast for recycled carbon fiber market?

Answer:The recycled carbon fiber market is expected to grow at a CAGR of 8% from 2023 to 2030.

Q3. What are the major drivers influencing the growth of the recycled carbon fiber market?

Answer: The major drivers for this market are regulations for reuse & recyclability of materials and the cost advantage of recycled carbon fiber compared to virgin carbon fiber.

Q4. What are the major applications or end use industries for recycled carbon fiber?

Answer:Transportation and consumer electronics market are the major end use for recycled carbon fiber.

Q5. What are the emerging trends in recycled carbon fiber market?

Answer: Emerging trends, which have a direct impact on the dynamics of the industry, include the development of various processes and methods to reduce energy consumption and cost during recycling process.

Q6. What are the key recycled carbon fiber companies?

Answer: Some of the key recycled carbon fiber companies are as follows:

Procotex

Gen 2 Carbon (Carbon Fiber Ltd).

SGL Carbon

CFK Valley Recycling

Carbon Conversion Inc.

Vartega

Toray

Karborek

Q7. Which recycled carbon fiber application segment will be the largest in future?

Answer: Lucintel forecasts that non-woven mats will remain the largest product type and it is also expected to witness the highest growth over the forecast period due to the growing demand for low cost, recycled carbon fiber in structural applications.

Q8. In recycled carbon fiber market, which region is expected to be the largest in next 5 years?

Answer: Europe is expected to remain the largest region and APAC to witness the highest growth over next 5 years

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high growth opportunities for the global recycled carbon fiber market by end use (aerospace, transportation, consumer electronics, sporting goods, and others), product type (non woven mats, chopped carbon fiber, milled carbon fiber), and region (North America, Europe, APAC, and the Rest of the World)?

Q. 2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5 What are the business risks and threats to the market?

Q.6 What are the emerging trends in this market and the reasons behind them?

Q.7 What are the changing demands of customers in the market?

Q.8 What are the new developments in the market? Which companies are leading these developments?

Q.9 Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M & A activities have taken place in the last 5 years in this market?

For any questions related to recycled carbon fiber market or related to recycled fiber, carbon fiber market, carbon fiber future, recycling carbon fiber, carbon fiber recycling, scrap carbon fiber, carbon fiber scraps, recycled carbon fiber market share,

recycled carbon fiber market analysis, recycled carbon fiber market size, carbon fiber future, and recycled fiber, write to Lucintel analysts at helpdesk@lucintel.com We will be glad to get back to you soon.

Contents

1. EXECUTIVE SUMMARY

2. GLOBAL RECYCLED CARBON FIBER MARKET DYNAMICS

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2018 TO 2030

3.1: Macroeconomic Trends and Forecasts

3.2: Global Recycled Carbon Fiber Market Trends and Forecast

3.3 Global Recycled Carbon Fiber Market by End Use

3.3.1: Aerospace

3.3.2: Transportation

3.3.3: Consumer Electronics

3.3.4: Sporting Goods

3.3.5: Others

3.4: Global Recycled Carbon Fiber Market by Product Type

3.4.1: Non Woven Mats

3.4.2: Chopped Carbon Fiber

3.4.3: Milled Carbon Fiber

4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION

4.1: Global Recycled Carbon Fiber Market by Region

4.2: North American Recycled Carbon Fiber Market Trends and Forecast

4.2.1: North American Recycled Carbon Fiber Market by End Use

4.2.2: North American Recycled Carbon Fiber Market by Product Type

4.3: European Recycled Carbon Fiber Market Trends and Forecast

4.3.1: European Recycled Carbon Fiber Market by End Use

4.3.2: European Recycled Carbon Fiber Market by Product Type

4.4: APAC Recycled Carbon Fiber Market Trends and Forecast

4.4.1: APAC Recycled Carbon Fiber Market by End Use

4.4.2: APAC Recycled Carbon Fiber Market by Product Type

4.5: ROW Recycled Carbon Fiber Market Trends and Forecast

4.5.1: ROW Recycled Carbon Fiber Market by End Use

4.5.2: ROW Recycled Carbon Fiber Market by Product Type

5. COMPETITOR ANALYSIS

5.1: Product Portfolio Analysis

5.2: Market Share Analysis

5.3: Operational Integration

5.4: Geographical Reach

5.5: Porter's Five Forces Analysis

6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS

6.1: Growth Opportunity Analysis

6.1.1: Growth Opportunities for the Global Recycled Carbon Fiber Market by End Use

6.1.2: Growth Opportunities for the Global Recycled Carbon Fiber Market by Product Type

6.1.3: Growth Opportunities for the Global Recycled Carbon Fiber Market by Region

6.2: Emerging Trends in the Global Recycled Carbon Fiber Market

6.3: Strategic Analysis

6.3.1: Capacity Expansion of the Global Recycled Carbon Fiber Market

6.3.2: Mergers, Acquisitions, and Joint Ventures in the Global Recycled Carbon Fiber Market

7. COMPANY PROFILES OF LEADING PLAYERS

7.1: Procotex

7.2: Gen2 Carbon (ELG Carbon Fiber Ltd)

7.3: SGL Carbon

7.4: CFK Valley Recycling

7.5: Carbon Conversion Inc.

7.6: Vartega

7.7: Toray

7.8: Karborek

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