

Global Carbon Fiber Recycling and Reuse Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Recycling and Reuse market size is expected to reach \$ 583 million by 2032, rising at a market growth of 13.1% CAGR during the forecast period (2026-2032).

Carbon Fiber Recycling and Reuse refers to the recovery, regeneration, conversion, and commercial reuse of carbon fiber and carbon fiber composite waste. The principal feedstocks include dry fiber and textile scrap, unused tow, uncured or expired prepregs, cured composite production scrap, rejected parts, and end-of-life components. Recycling processes mainly comprise mechanical recycling, thermal recycling, chemical recycling, and combined recycling. Recovered fibers are converted into chopped fiber, milled fiber, nonwoven materials, pellets and compounds, prepregs, laminates, and other reusable intermediate products. Key technical and commercial indicators include feedstock compatibility, usable fiber yield, retained mechanical properties, fiber length, residual resin content, surface condition, product consistency, energy consumption, traceability, and downstream qualification. The resulting materials are primarily reused in aerospace and defense, automotive and transportation, wind energy, sporting goods, industrial equipment, electrical products, construction, and other composite applications. The research scope covers both recycling and treatment activities and the sale of recovered carbon fiber and value-added intermediate materials produced from recycled feedstock.

Key Findings

Thermal and mechanical routes form the core of current commercial recycling capacity

Production scrap and prepreg waste remain the most established feedstock categories

Chopped fiber, milled fiber, and nonwoven materials are the principal commercial product forms

Europe has the most diversified carbon fiber recycling and reuse ecosystem

Competition is moving toward traceable, qualified, and application-ready recycled materials

Market Trends

Carbon Fiber Recycling and Reuse is shifting from basic waste treatment and low-value fiber recovery toward integrated material regeneration and application-oriented reuse. Technology development increasingly focuses on improving usable fiber yield, limiting oxidation and surface damage, controlling residual resin, and producing stable material specifications. Thermal recycling remains an important route for cured thermoset composites, while mechanical recycling is widely applied to clean manufacturing scrap, dry textiles, prepregs, and materials intended for short-fiber applications. Chemical and combined processes are attracting greater attention where customers require cleaner fiber surfaces, improved property retention, or recovery of value from the polymer matrix. Product portfolios are expanding beyond loose chopped and milled fibers into engineered bundles, nonwoven fabrics, thermoplastic compounds, prepregs, laminates, panels, and near-net-shape composite intermediates. Digital traceability, automated sorting, process data management, product carbon-footprint verification, and closed-loop supply agreements are becoming more important as customers seek materials that can be incorporated into established industrial production rather than treated only as lower-grade waste-derived substitutes.

Market Dynamics

Drivers

Growth is supported by rising carbon fiber composite consumption, increasing manufacturing scrap, the gradual accumulation of end-of-life components, and stronger

corporate demand for circular and lower-impact materials. Carbon fiber has high embodied energy and material value, creating a stronger economic incentive for recovery than many conventional reinforcements. Aerospace, automotive, wind energy, industrial equipment, and sporting-goods manufacturers are also seeking to reduce landfill disposal, improve material utilization, document waste diversion, and introduce recycled content into new products. European industry initiatives are promoting improved collection, recycling, and reuse of composite waste, while the commissioning of new industrial facilities demonstrates that the market is progressing beyond laboratory and pilot-scale development.

Restraints

Market development is constrained by variations in fiber grade, resin chemistry, component geometry, contamination, coatings, adhesives, and embedded materials. End-of-life components generally require more dismantling, transportation, and preprocessing than clean post-industrial scrap, increasing the cost and complexity of recovery. Recycled fibers may be shorter, randomly oriented, or affected by surface damage and inconsistent sizing, which limits their direct reuse in continuous-fiber structural applications. Commercial economics also depend on stable waste supply, sufficient plant utilization, reliable product quality, and downstream demand capable of absorbing recovered material. Recycled carbon fiber must compete with virgin chopped fiber, glass fiber, mineral fillers, and other reinforcement systems whose pricing and qualification pathways may already be well established.

Opportunities

The strongest market opportunities lie in converting recycled carbon fiber into standardized, value-added materials that can be directly processed by downstream customers. Near-term opportunities include chopped fiber for thermoplastic compounding, milled fiber for functional reinforcement, nonwoven materials for compression molding and sheet applications, and engineered bundles for automated feeding. Higher-value opportunities are emerging in recycled prepregs, thermoplastic laminates, forged composite materials, construction panels, battery components, sporting goods, medical products, and customized OEM products. Regional recycling hubs, mobile or modular processing, long-term take-back programs, digital traceability, and closed-loop agreements can improve feedstock security and lower logistics costs. Suppliers that combine waste collection, recovery, material conversion, product development, and customer qualification can capture more value than companies

focused only on basic treatment or the sale of undifferentiated fibers.

Challenges

The industry continues to face limited standardization of waste classification, recycled-content measurement, fiber property testing, recovery-yield calculation, and product naming. Companies may report waste intake capacity, recovered fiber output, recycled material sales, or project capacity using different definitions, making direct comparison difficult. Scaling a technically successful process into continuous industrial production requires stable temperature or chemical control, emissions management, consistent preprocessing, quality assurance, and sufficient utilization. Recycled materials must also pass customer-specific testing for mechanical performance, processing behavior, appearance, durability, and regulatory compliance. Another challenge is simultaneously securing sufficient waste supply and reliable material offtake. Companies without strong downstream application development may produce fibers that are technically recoverable but difficult to sell at attractive margins.

Industry Chain Analysis

The upstream segment includes carbon fiber producers, textile manufacturers, prepreg suppliers, composite processors, component manufacturers, maintenance organizations, and owners of retired composite assets. These participants generate dry fiber scrap, textile offcuts, surplus tow, expired prepregs, cured production waste, rejected components, and end-of-life structures. Feedstock value depends on fiber grade, resin type, contamination, traceability, fiber length, waste concentration, and dismantling requirements. Clean production scrap generally offers the most stable quality and lowest preprocessing cost, while retired components provide a larger long-term resource base but require more complex logistics and material separation.

The midstream covers waste collection, sorting, dismantling, cutting, shredding, mechanical opening, thermal treatment, chemical decomposition, purification, surface conditioning, fiber sizing, and conversion into commercial material formats. The downstream segment includes compounders, nonwoven producers, prepreg manufacturers, sheet and laminate producers, molders, component suppliers, and OEMs. Value creation increases as the material moves from unprocessed waste to qualified fibers, engineered intermediates, and application-specific products. Basic waste processing and loose fiber sales generally provide lower value density, while

compounds, nonwovens, prepregs, laminates, and customized materials benefit from greater technical differentiation, customer qualification, and application engineering.

Segment Insights

By recycling process, thermal recycling accounts for a substantial share of the commercial treatment of cured thermoset composites because it can remove the resin matrix and recover the carbon fiber fraction. Mechanical recycling remains widely used for dry fiber, textile scrap, prepregs, thermoplastic composites, and applications that can accept shorter fibers. Chemical recycling has strategic potential because it may provide cleaner fiber surfaces and recover value from resin-derived products, but commercial deployment remains more complex. Combined recycling is increasingly used to integrate size reduction, resin removal, purification, surface treatment, and material conversion.

By product form, chopped and milled fibers remain the most broadly commercialized products because they can be incorporated into established thermoplastic, thermoset, coating, and functional-material processes. Nonwoven materials offer higher value in compression molding, sheet products, transportation, electronics, and structural or semi-structural applications. Pellets and compounds simplify downstream processing and are gaining importance in injection molding and additive manufacturing. Recycled prepregs and laminates represent smaller but higher-value categories, supported by demand for application-ready materials. By feedstock type, manufacturing scrap and prepreg waste remain the most commercially mature sources, while end-of-life aerospace, wind-energy, transportation, pressure-vessel, and sporting-goods components represent the major long-term opportunity.

Downstream Market Opportunities

Aerospace and defense generate high-grade, traceable prepreg offcuts, cured production waste, rejected structures, and retired components, supporting high-quality fiber recovery and closed-loop programs. Automotive and transportation provide broad reuse opportunities in thermoplastic compounds, interior components, underbody parts, battery enclosures, rail products, and lightweight structures. Wind energy is an important future source of waste from carbon spar caps, pultruded profiles, production offcuts, and selected blade structures. Sporting goods offer relatively short material-qualification cycles and visible applications for recycled composites. Industrial equipment creates opportunities in pressure vessels, tooling, rollers, machinery

components, and robotic systems. Electrical products, construction materials, medical devices, and consumer goods provide additional demand for nonwoven materials, compounds, laminates, and customized recycled composite products.

Regional Insights

Europe has the most diversified carbon fiber recycling and reuse ecosystem, supported by concentrated aerospace, automotive, wind-energy, and composite manufacturing, a broad base of specialist recyclers, and increasing circular-economy policy activity. Regional companies cover mechanical, thermal, chemical, and combined processes and produce products ranging from loose fibers and nonwovens to panels and advanced composite materials. Europe still has a substantial gap between technically accessible composite waste and the quantity entering established recycling channels, creating room for additional collection, treatment, and reuse capacity.

North America has strong access to aerospace and industrial production scrap and has developed commercial capacity in chopped fiber, engineered bundles, nonwovens, compounds, and recycled composite components. China is expanding alongside domestic carbon fiber, wind energy, pressure vessel, automotive, and composite manufacturing, with local companies developing integrated waste treatment and material reuse solutions. Japan maintains specialized capabilities in carbon fiber recovery and intermediate material conversion, while South Korea and China Taiwan are developing chemical, thermal, microwave-assisted, and vertically integrated reuse platforms. Southeast Asia remains at an earlier stage but is beginning to establish local supply chains around aviation, regional manufacturing, and recycled composite materials.

Competitive Landscape Analysis

The Carbon Fiber Recycling and Reuse market remains fragmented and includes specialist recyclers, recycled fiber manufacturers, composite material converters, waste-management groups, and vertically integrated circular-material companies. European participants such as Fairmat, Gen 2 Carbon, Procotex, Hera Group, RECARBON, RYMYC, Composite Recycling, and Alpha Recyclage Composites compete through differentiated recycling routes and diversified material formats. North American companies such as Vartega, Carbon Fiber Recycling, PhlexTek, Carbon Fiber Remanufacturing, Shocker Composites, and Elevated Materials emphasize industrial

scrap access, product standardization, compounds, engineered fibers, and application development. Asian participants, including Mitsubishi Chemical Group, Nantong Fuyuan Carbon Fiber Recycling, Newtech Group, Fuji Design, CATAACK-H, Thermolysis, and Nandina REM, are expanding regional processing and higher-value reuse capabilities. Competitive advantage increasingly depends on secured feedstock, actual production utilization, consistent fiber quality, product breadth, traceability, certification, downstream qualification, and the ability to convert recycled fibers into commercially useful materials. Industry consolidation and strategic partnerships are likely to continue as companies seek to combine waste access, recycling technology, conversion capacity, and end-market channels.

Report Scope

This report studies the global Carbon Fiber Recycling and Reuse demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber Recycling and Reuse, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Fiber Recycling and Reuse that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fiber Recycling and Reuse total market, 2021-2032, (USD Million)

Global Carbon Fiber Recycling and Reuse total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Carbon Fiber Recycling and Reuse total market, key domestic companies, and share, (USD Million)

Global Carbon Fiber Recycling and Reuse revenue by player, revenue and market share 2021-2026, (USD Million)

Global Carbon Fiber Recycling and Reuse total market by Type, CAGR,

2021-2032, (USD Million)

Global Carbon Fiber Recycling and Reuse total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Carbon Fiber Recycling and Reuse market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Composite Recycling, Carbon Cleanup, Alpha Recyclage Composites, Fairmat, Hera Group, Gen 2 Carbon, Procotex, Mitsubishi Chemical Group, Carbon Fiber Conversions, RECARBON, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Carbon Fiber Recycling and Reuse market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Fiber Recycling and Reuse Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Carbon Fiber Recycling and Reuse Market, Segmentation by Type:

Mechanical Recycling

Thermal Recycling

Chemical Recycling

Combined Recycling

Global Carbon Fiber Recycling and Reuse Market, Segmentation by Product Form:

Chopped Fiber

Milled Fiber

Nonwoven Materials

Other

Global Carbon Fiber Recycling and Reuse Market, Segmentation by Feedstock Type:

Dry Fiber and Textile Scrap

Prepreg Scrap

Cured Composite Scrap

End-of-Life Components

Other

Global Carbon Fiber Recycling and Reuse Market, Segmentation by Application:

Aerospace and Defense

Automotive and Transportation

Wind Energy

Sporting Goods

Industrial Equipment

Other

Companies Profiled:

Composite Recycling

Carbon Cleanup

Alpha Recyclage Composites

Fairmat

Hera Group

Gen 2 Carbon

Procotex

Mitsubishi Chemical Group

Carbon Fiber Conversions

RECARBON

RYMYC

Vartega

Shocker Composites

Carbon Fiber Recycling

Carbon Fiber Remanufacturing

PhlexTek

Elevated Materials

Nantong Fuyuan Carbon Fiber Recycling

Newtech Group

Nippon Polymer Sangyo

Fuji Design

CATAACK-H

Thermolysis

Nandina REM

Key Questions Answered

1. How big is the global Carbon Fiber Recycling and Reuse market?
2. What is the demand of the global Carbon Fiber Recycling and Reuse market?
3. What is the year over year growth of the global Carbon Fiber Recycling and Reuse market?
4. What is the total value of the global Carbon Fiber Recycling and Reuse market?
5. Who are the Major Players in the global Carbon Fiber Recycling and Reuse market?
6. What are the growth factors driving the market demand?

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