

Recycled Composites Market Forecasts to 2034 – Global Analysis By Recycled Fiber Type (Recycled Carbon Fiber, Recycled Glass Fiber, Recycled Aramid Fiber, and Other Recycled Fiber Types), Recycling Source, End-Use Industry, and By Geography

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Abstracts

According to Statistics MRC, the Global Recycled Composites Market is accounted for \$1.0 billion in 2026 and is expected to reach \$1.7 billion by 2034 growing at a CAGR of 6.2% during the forecast period. Recycled composites are advanced materials produced from recovered fibers including recycled carbon fiber, recycled glass fiber, and recycled aramid fiber, sourced from production waste, end-of-life composite products, automotive waste, aerospace waste, wind turbine waste, and construction waste. These materials offer sustainable alternatives to virgin composites with advantages including reduced environmental impact, lower cost, and comparable performance in many applications. The market serves automotive and transportation, aerospace and defense, construction and infrastructure, wind energy, industrial, consumer goods, and sporting goods end-use industries.

Market Dynamics:

Driver:

Growing demand for sustainable materials and circular economy practices

The increasing focus on sustainability and circular economy principles is a primary driver for the recycled composites market. Recycled composites offer a sustainable alternative to virgin materials, reducing environmental impact and waste. Automotive manufacturers are adopting recycled composites for non-structural components.

Growing regulatory pressure on composite waste disposal is driving demand for recycling solutions. As sustainability requirements intensify, recycled composites capture growing market share across all major applications.

Restraint:

Performance variability and limited supply of recycled fibers

Performance variability in recycled fibers and limited supply compared to virgin materials represent major restraints for the market. Recycled fibers may exhibit inconsistent mechanical properties due to source variability. Supply of high-quality recycled fibers remains limited. Processing challenges for recycled composites may affect product quality. These performance and supply challenges may constrain market growth, particularly in demanding applications where consistent performance is critical.

Opportunity:

Expansion of wind turbine blade recycling and aerospace composite recovery

The growing need for wind turbine blade recycling and aerospace composite recovery presents significant opportunities for the recycled composites market. End-of-life wind turbine blades represent a substantial source of recyclable glass and carbon fiber. Aerospace composite waste from production and retired aircraft offers high-value recycled fiber. Growing regulatory pressure on composite waste disposal is driving investment in recycling infrastructure. As recycling capacity expands, recycled composites capture growing market share.

Threat:

Competition from virgin composites and alternative sustainable materials

Intense competition from virgin composites and alternative sustainable materials including bio-based composites poses significant threats to recycled composites market growth. Virgin composites offer consistent performance and established supply chains. Bio-based composites provide renewable alternatives. Recycled composites face performance and cost competition. This competition may limit market share, particularly in applications where virgin or bio-based materials are preferred.

Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the recycled composites market. Initial disruptions included supply chain interruptions and reduced industrial activity. However,

the pandemic accelerated focus on sustainability and circular economy practices. Wind energy investment continued as a strategic priority. Post-pandemic, continued sustainability focus and expanding recycling infrastructure have supported market growth across all end-use sectors.

The Recycled Carbon Fiber segment is expected to be the largest during the forecast period

The Recycled Carbon Fiber segment is expected to account for the largest market share during the forecast period, driven by its high value, superior performance, and growing availability from aerospace and industrial waste streams. Recycled carbon fiber offers significant cost savings compared to virgin carbon fiber while maintaining much of its mechanical properties. The segment benefits from growing aerospace composite waste and expanding recycling capacity. Automotive and industrial applications are increasingly adopting recycled carbon fiber for non-structural components. As recycling technology improves, recycled carbon fiber maintains the largest recycled fiber type segment share.

The Wind Energy segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Wind Energy segment is predicted to witness the highest growth rate, fueled by the growing need to recycle end-of-life wind turbine blades and the expanding use of recycled composites in new wind energy applications. Wind turbine blades represent a substantial source of recyclable glass and carbon fiber. The segment benefits from growing wind energy capacity and increasing regulatory pressure on blade disposal. As wind energy expands and blade recycling infrastructure develops, this end-use industry delivers the fastest segment growth.

Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market share, supported by stringent environmental regulations, established recycling infrastructure, and strong wind energy industry. Germany and the United Kingdom lead regional growth with significant composite recycling initiatives. European regulations on composite waste disposal drive demand for recycled materials. Well-established research and development infrastructure supports innovation. With strong regulatory drivers and market maturity, Europe maintains its dominant market position.

Region with highest CAGR:

Over the forecast period, the Asia-Pacific region is anticipated to exhibit the highest CAGR, driven by rapid industrialization, expanding wind energy capacity, and growing regulatory pressure on waste reduction across China, India, and Southeast Asia. The region's large and growing manufacturing base creates substantial composite waste streams. Government policies promoting recycling and circular economy support market growth. Expanding wind energy capacity drives blade recycling demand. As industrial activity and sustainability focus expand, Asia Pacific delivers the fastest recycled composites market growth globally.

Key players in the market

Some of the key players in Recycled Composites Market include Gen 2 Carbon Limited, ELG Utica Alloys, Vartega Inc., Carbon Conversions, Inc., Procotex Corporation SA, SGL Carbon SE, Teijin Limited, Toray Industries, Inc., Mitsubishi Chemical Group Corporation, SHD Composites, Recycling Technologies Ltd., Global Fiberglass Solutions, Carbon Fiber Recycling, Vartega, and Carbon Fiber Recycle.

Key Developments:

In September 2026, Teijin supplied Whill Inc. with its Sereebo P CFP carbon fiber-reinforced thermoplastic compound, utilizing post-industrial recycled carbon fiber uniformly dispersed in polyamide resin to manufacture structural parts for the Whill Model C Lite mobility wheelchair.

In September 2026, R&M International acquired Vartega's patented carbon fiber recovery technology and EasyFeed Bundles platform to scale high-purity recycled carbon fiber feedstocks for thermoplastic compounding and additive manufacturing.

In March 2026, Carbon Conversions announced a commercial partnership with Barnet to expand the market distribution and industrial compounding adoption of its CarboFlow recycled carbon fiber line.

In February 2026, Procotex announced the commercial scale-up of its recycled carbon fiber portfolio to process cured composite scrap alongside spool waste, lowering raw material costs up to 40% and reducing the carbon footprint compared to virgin fibers.

Recycled Fiber Types Covered:

Recycled Carbon Fiber

Recycled Glass Fiber

Recycled Aramid Fiber

Other Recycled Fiber Types

Recycling Sources Covered:

Production Waste

End-of-Life Composite Products

Automotive Waste

Aerospace Waste

Wind Turbine Waste

Construction and Infrastructure Waste

Other Recycling Sources

End-Use Industries Covered:

Automotive and Transportation

Aerospace and Defense

Construction and Infrastructure

Wind Energy

Industrial

Consumer Goods

Sporting Goods

Other End-Use Industries

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

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