

Fiber Circularity Solutions Market Forecasts to 2034 – Global Analysis By Solution Type (Fiber Collection Solutions, Fiber Sorting Solutions, Fiber Recycling Solutions, Fiber Traceability Solutions and Other Solution Types), Fiber Type, Recycling Method, Business Model, End User, and Geography

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Abstracts

According to Statistics MRC, the Global Fiber Circularity Solutions Market is accounted for \$3.2 billion in 2026 and is expected to reach \$13.8 billion by 2034 growing at a CAGR of 20.1% during the forecast period. Fiber circularity solutions are technologies and digital platforms that enable the recovery, recycling, reuse, and traceability of textile and fiber materials throughout their lifecycle. These solutions support fiber sorting, material identification, chemical and mechanical recycling, digital product passports, and supply chain transparency to maximize resource utilization and minimize textile waste. Fiber circularity solutions help manufacturers extend material lifecycles, reduce dependence on virgin fibers, and comply with circular economy regulations. Increasing sustainability commitments and growing demand for responsible textile production are driving the adoption of fiber circularity solutions worldwide.

Market Dynamics:

Driver:

Growing demand for recycled fibers

Consumers are increasingly aware of sustainability issues and prefer eco-friendly products. Enterprises are investing in fiber recycling solutions to meet corporate ESG

commitments and reduce reliance on virgin materials. Governments are supporting recycled fiber adoption through circular economy policies and waste reduction initiatives. Rising demand from global apparel brands reinforces the importance of recycled fibers in supply chains. Collectively, this demand ensures strong momentum for fiber circularity solutions.

Restraint:

Limited textile collection infrastructure

Few regions lack efficient systems to gather post-consumer textiles for recycling. Enterprises face challenges in scaling fiber recycling without reliable collection networks. Smaller firms struggle to manage logistics compared to larger competitors with established supply chains. Regulatory frameworks often require compliance with waste management standards, adding complexity. As a result, limited collection infrastructure remains a significant barrier to market growth.

Opportunity:

Fiber-to-fiber recycling technologies

Fiber-to-fiber recycling technologies present a major opportunity for innovation and scalability. These solutions enable direct conversion of old textiles into new fibers without significant quality loss. Enterprises benefit from reduced raw material costs and improved sustainability outcomes. Governments are encouraging fiber-to-fiber recycling as part of circular economy strategies. Consumer demand for closed-loop textile solutions accelerates investment in this segment. This opportunity is expected to reshape the competitive landscape of fiber circularity solutions.

Threat:

Competition from virgin fiber production

Virgin fibers often remain cheaper and more readily available than recycled alternatives. Enterprises must balance cost efficiency with sustainability commitments. Smaller firms are particularly vulnerable to price competition compared to larger brands. Regulatory incentives for recycled fibers help mitigate this challenge but adoption remains uneven. Unless recycled fibers achieve cost parity, competition from virgin production will remain a threat.

Covid-19 Impact:

The Covid-19 pandemic disrupted textile supply chains, reducing short-term demand for recycled fibers. Lockdowns slowed down collection and recycling operations globally. However, the crisis highlighted vulnerabilities in linear supply chains and accelerated interest in circular models. Governments emphasized sustainability in recovery plans, reinforcing the importance of fiber recycling. Enterprises renewed focus on resilient and eco-friendly sourcing strategies. Overall, Covid-19 created temporary setbacks but strengthened the long-term case for fiber circularity solutions.

The fiber recycling solutions segment is expected to be the largest during the forecast period

The fiber recycling solutions segment is expected to account for the largest market share during the forecast period as enterprises prioritize sustainability. Recycling solutions enable efficient conversion of textile waste into usable fibers. Enterprises rely heavily on these solutions to meet ESG goals and reduce environmental impact. Regulatory support for waste reduction further boosts adoption. Consumer demand for eco-friendly textiles reinforces the importance of this segment. Consequently, fiber recycling solutions remain the cornerstone of the fiber circularity market.

The chemical recycling segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the chemical recycling segment is predicted to witness the highest growth rate due to rising demand for advanced recycling technologies. Chemical processes enable recovery of high-quality fibers from complex textile blends. Enterprises benefit from improved efficiency and scalability compared to mechanical recycling. Governments are supporting chemical recycling projects as part of sustainable innovation initiatives. Consumer demand for high-quality recycled fibers accelerates adoption in this segment.

Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market share owing to strong policy support for circular economy initiatives. The EU leads in textile recycling regulations and sustainability programs. Enterprises in Europe are investing heavily in fiber recycling technologies. Consumer demand for eco-friendly

fashion is higher compared to other regions. Regulatory frameworks support innovation while ensuring compliance, further boosting adoption. These factors collectively secure Europe's leadership in the fiber circularity solutions market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by rapid industrialization and textile production. Countries such as China, India, and Japan are scaling up recycling projects to meet sustainability goals. Rising middle-class populations are fueling demand for eco-friendly apparel and home textiles. Governments are introducing supportive policies to encourage domestic recycling initiatives. Local companies are expanding innovations to meet both domestic and export requirements.

Key players in the market

Some of the key players in Fiber Circularity Solutions Market include Siemens Mobility GmbH, Wabtec Corporation, Hitachi Rail Limited, Alstom SA, Thales Group, IBM Corporation, ABB Ltd., Hexagon AB, PTC Inc., AVEVA Group plc, Capgemini SE, Accenture plc, Konux GmbH, SKF AB and Fujitsu Limited.

Key Developments:

In January 2026, AVEVA Group plc integrated new circular material accounting features directly into its industrial plant asset tracking platforms. The upgrade enables processing plants to continuously monitor their consumption of technical synthetic fibers, minimizing industrial waste streams automatically.

In September 2025, Hexagon AB launched a specialized non-destructive testing software suite specifically tailored to scan structural recycled fiber alignments. The optical scanning platform uses ultrasonic imaging data to guarantee that chopped or milled carbon fibers satisfy baseline load tolerances before manufacturing re-entry.

Solution Types Covered:

Fiber Collection Solutions

Fiber Sorting Solutions

Fiber Recycling Solutions

Fiber Traceability Solutions

Other Solution Types

Fiber Types Covered:

Natural Fibers

Synthetic Fibers

Regenerated Fibers

Blended Fibers

Other Fiber Types

Recycling Methods Covered:

Mechanical Recycling

Chemical Recycling

Biological Recycling

Closed-Loop Recycling

Other Recycling Methods

Business Models Covered:

Reuse

Repair

Remanufacturing

Fiber-to-Fiber Recycling

Other Business Models

End Users Covered:

Textile Manufacturers

Apparel Companies

Recycling Companies

Retail Brands

Other End Users

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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Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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