

Fiber-reinforced Plastic (FRP) Recycling Market – Global Industry Size, Share, Trends, Opportunity, & Forecast, Segmented By Product Type (Glass Fiber-Reinforced Plastic, Carbon Fiber-Reinforced Plastic, and Others), By Recycling Technique (Thermal/Chemical Recycling, Incineration, Co-Incineration and Mechanical Recycling), By End User Industry (Industrial, Transportation, Building and Construction, Sports, Others), By Region, Competition, 2019-2029F

https://marketpublishers.com/r/F1942724EE3FEN.html

Date: April 2024

Pages: 184

Price: US\$ 4,500.00 (Single User License)

ID: F1942724EE3FEN

Abstracts

Global Fiber-reinforced Plastic (FRP) Recycling Market was valued at USD 469.21 Million in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 4.05% through 2029.

The Fiber-reinforced Plastic (FRP) Recycling Market is positioned at the intersection of sustainability and technological innovation, addressing the challenges posed by the growing use of composite materials in various industries. As the world intensifies its focus on environmental conservation, the need for efficient and scalable FRP recycling processes becomes crucial. The dynamic landscape of the FRP Recycling Market is shaped by an intricate interplay of factors, reflecting the industry's response to environmental concerns, regulatory pressures, and the increasing demand for circular economy practices. FRP, known for its lightweight, durable, and corrosion-resistant properties, has gained widespread use in sectors such as automotive, construction, aerospace, and marine. However, the end-of-life management of FRP products has



become a pressing issue, leading to a surge in recycling initiatives. One of the primary drivers fueling the FRP Recycling Market is the rising awareness of the environmental impact of composite materials. Traditional disposal methods often lead to the accumulation of FRP waste in landfills, posing environmental challenges. Recycling provides a sustainable solution, reducing the carbon footprint associated with FRP production and disposal. Governments, regulatory bodies, and industry stakeholders are increasingly advocating for responsible waste management practices, further propelling the demand for efficient FRP recycling.

The FRP Recycling Market is a global phenomenon, with key players and recycling facilities operating on an international scale. Regions such as North America, Europe, Asia Pacific, and Latin America contribute significantly to the market's growth, each influenced by regional policies, industrial practices, and environmental awareness. North America, with its robust manufacturing sectors and stringent environmental regulations, stands as a key player in the global FRP Recycling Market. The United States, in particular, has witnessed a growing emphasis on sustainable practices, prompting increased investments in FRP recycling infrastructure. Europe, known for its proactive approach to environmental issues, has implemented policies encouraging recycling and circular economy practices. The Asia Pacific region, driven by rapid industrialization, is emerging as a vital market for FRP recycling, with countries like China and Japan actively investing in recycling technologies. Latin America, with its focus on sustainable development, is also making strides in FRP recycling, contributing to the global effort to manage composite waste responsibly.

The applications of FRP are diverse, ranging from automotive parts and construction materials to aerospace components and marine structures. Consequently, the FRP Recycling Market caters to a wide array of industries seeking sustainable solutions for their composite waste. In the automotive sector, recycling FRP components helps reduce the environmental impact of end-of-life vehicles, aligning with the automotive industry's increasing commitment to sustainability. In the construction industry, where FRP is utilized for panels, pipes, and other structural elements, recycling offers a way to manage construction waste responsibly. Aerospace and marine industries, characterized by the extensive use of FRP for lightweight and durable components, are increasingly adopting recycling practices to address the challenges associated with composite waste in these sectors.

Several key trends and opportunities are shaping the FRP Recycling Market, reflecting the industry's evolution and response to emerging challenges. Innovations in recycling technologies, including mechanical, chemical, and thermal processes, are enhancing



the efficiency of FRP recycling. Advanced sorting techniques, composite separation methods, and the development of new applications for recycled FRP are driving technological advancements in the market. Collaborations between manufacturers, recyclers, and research institutions are becoming more prevalent. These partnerships aim to streamline the recycling supply chain, improve the quality of recycled materials, and foster a circular economy for FRP products. The concept of a circular economy, where materials are reused, recycled, and reintegrated into the production cycle, is gaining traction. Governments and organizations are implementing policies that encourage circular economy practices, creating opportunities for FRP recycling to play a pivotal role in achieving sustainability goals.

While the FRP Recycling Market presents promising prospects, it also faces certain challenges that require strategic solutions. Recycling FRP involves addressing the complex composition of composite materials, which can be challenging. Developing cost-effective and scalable recycling technologies that can handle diverse FRP formulations is a key challenge for the industry. The economic feasibility of FRP recycling remains a concern. The cost of recycling processes, coupled with the challenge of creating high-value end-products from recycled FRP, requires careful consideration to ensure the economic viability of recycling initiatives. The absence of standardized regulations for FRP recycling poses challenges for industry players. Establishing clear guidelines and standards for the collection, processing, and use of recycled FRP materials is crucial for fostering a sustainable recycling ecosystem.

The Global Fiber-reinforced Plastic (FRP) Recycling Market is at the forefront of sustainable waste management solutions, addressing the environmental impact of composite materials across industries. As the demand for recycled FRP materials continues to grow, the industry is poised for expansion, driven by technological advancements, circular economy initiatives, and collaborative efforts between stakeholders. Successfully navigating the challenges associated with FRP recycling requires a concerted effort from manufacturers, recyclers, governments, and consumers to create a sustainable and circular approach to managing composite waste. As the market evolves, innovation and strategic partnerships will play a pivotal role in shaping the future of FRP recycling on a global scale.

Key Market Drivers

Stringent environmental regulations are Expected to Drive the Demand for Global Fiberreinforced Plastic (FRP) Recycling Market



The global Fiber-reinforced Plastic (FRP) recycling market is experiencing robust growth, driven by the impetus provided by stringent environmental regulations across industries. Governments and regulatory bodies worldwide are increasingly focusing on the environmental impact of plastic waste and composite materials, prompting the need for sustainable waste management solutions. FRPs, with their intricate composition of reinforced fibers and polymer matrices, present a unique challenge in end-of-life disposal, making adherence to stringent environmental regulations imperative for industries utilizing these materials.

One of the primary factors propelling the growth of the FRP recycling market is the heightened stringency of environmental regulations governing waste management. With plastic pollution emerging as a global concern, regulatory bodies are mandating measures to curb the environmental impact of composite materials like FRPs. Stricter disposal norms, landfill restrictions, and directives encouraging the adoption of circular economy principles are prompting industries to explore innovative solutions for handling FRP waste responsibly. FRP recycling, as a sustainable and eco-friendly alternative, is gaining prominence to comply with these regulations while promoting resource efficiency. Furthermore, the automotive industry, a major consumer of FRPs for lightweight components and enhanced fuel efficiency, is subject to increasingly stringent emission standards and regulatory frameworks. As governments worldwide intensify efforts to reduce carbon footprints and enhance sustainability in the automotive sector. manufacturers are compelled to adopt environmentally friendly practices. FRP recycling emerges as a critical component in achieving compliance with these regulations, offering an avenue to manage the end-of-life FRP components in a manner that aligns with stringent environmental standards.

Similarly, the construction industry, where FRPs find extensive use in structural elements and insulating materials, is facing a paradigm shift in waste management practices due to evolving environmental regulations. Regulatory authorities are placing greater emphasis on green building practices and sustainable construction materials. The recycling of FRPs becomes essential for construction companies to meet these stringent environmental regulations, providing a solution that not only complies with norms but also contributes to the industry's broader goals of reducing environmental impact and promoting resource conservation. Aerospace, another industry relying heavily on FRPs for their high strength and lightweight properties, is not exempt from the influence of stringent environmental regulations. Regulatory bodies overseeing aerospace manufacturing are pushing for responsible end-of-life management of composite materials to minimize environmental consequences. FRP recycling addresses this imperative by offering a sustainable solution that adheres to



environmental regulations while enabling the aerospace industry to maintain its commitment to technological advancements and material innovation. The adherence to stringent environmental regulations is also driving research and development efforts in the FRP recycling sector. Innovations in recycling technologies and processes are being accelerated to meet the evolving requirements laid out by regulatory authorities. This includes the development of efficient sorting techniques, advanced material recovery methods, and eco-friendly processes that enhance the viability and effectiveness of FRP recycling. The collaborative efforts between industry stakeholders, regulators, and recycling technology providers reflect a commitment to meeting and exceeding the standards set by environmental regulations.

Thus, the growth of the global Fiber-reinforced Plastic (FRP) recycling market is propelled by the enforcement of stringent environmental regulations. As governments worldwide prioritize sustainability and circular economy practices, industries using FRPs are compelled to integrate responsible waste management solutions into their operations. FRP recycling emerges as a pivotal player in this landscape, offering a pathway for industries to meet environmental standards, reduce their ecological footprint, and contribute to a more sustainable and circular future. The evolution of the FRP recycling market underlines its pivotal role in the global shift towards environmentally conscious practices, ensuring that industries can continue to benefit from the unique properties of FRPs while minimizing their impact on the environment.

Rising Awareness and Demand for Sustainability is Expected to Propel the Demand for Global Fiber-reinforced Plastic (FRP) Recycling Market Growth

The global Fiber-reinforced Plastic (FRP) recycling market is experiencing a surge in demand, driven by the escalating awareness and demand for sustainability across industries. As environmental consciousness takes center stage in corporate agendas and consumer preferences, the recycling of FRPs, extensively used in applications ranging from automotive to construction, is gaining significant traction as a vital component of sustainable waste management practices.

A pivotal driver behind the burgeoning demand for FRP recycling is the growing awareness of the environmental repercussions of plastic waste and composite materials. FRPs, known for their strength, lightweight properties, and durability, have historically presented challenges in terms of end-of-life disposal. With an increased global awareness of plastic pollution and its adverse impact on ecosystems, there is a mounting urgency to address the sustainability concerns associated with FRPs. Stakeholders across industries, from manufacturers to consumers, are recognizing the



imperative of responsible waste management solutions, creating an environment conducive to the growth of the FRP recycling market. Furthermore, the demand for sustainability is reshaping the priorities of key industries, including automotive, construction, and aerospace, which are major consumers of FRPs. As consumers actively seek products and services with reduced environmental footprints, industries are under growing pressure to adopt sustainable practices throughout their value chains. FRP recycling aligns seamlessly with these sustainability objectives by providing a solution for the circular management of FRP waste, reducing reliance on virgin materials and mitigating the overall environmental impact associated with the production and disposal of FRPs.

The automotive industry is witnessing a profound transformation towards sustainable manufacturing practices and end-of-life management. With FRPs playing a pivotal role in vehicle design for their lightweight characteristics, automotive manufacturers are increasingly integrating recycling strategies into their production processes. The rising consumer awareness of sustainable alternatives, coupled with stringent emission standards, is compelling the automotive sector to embrace FRP recycling as a critical aspect of its commitment to environmental responsibility. Moreover, the construction industry, a significant user of FRPs for their structural and insulating properties, is undergoing a sustainability revolution. Stringent building codes and certification requirements are prompting construction companies to prioritize eco-friendly materials and practices. FRP recycling addresses the sustainability challenges in the construction sector by offering a solution to manage waste from demolished structures or end-of-life components. The increasing demand for green construction materials is propelling the adoption of FRP recycling as an essential component of sustainable building practices.

In addition, the aerospace industry, where FRPs are extensively utilized for their high strength and lightweight characteristics, is recognizing the urgency of sustainable practices. Regulatory bodies and industry stakeholders are emphasizing the need for efficient waste management strategies to handle the end-of-life components of aircraft. FRP recycling emerges as a key solution to address the complex composition of composite materials in the aerospace sector, contributing to the industry's broader efforts to enhance sustainability and reduce its environmental impact. The rising awareness and demand for sustainability are not only influencing industrial practices but are also driving technological innovations in FRP recycling processes. Ongoing advancements in recycling technologies and material recovery methods are enhancing the efficiency and viability of FRP recycling, making it an economically feasible and environmentally responsible option for industries aiming to incorporate sustainable practices into their operations. In conclusion, the increasing awareness and demand for



sustainability are acting as powerful catalysts for the growth of the global Fiber-reinforced Plastic (FRP) recycling market. With businesses and consumers placing a premium on environmentally responsible choices, the recycling of FRPs is emerging as a pivotal element in the shift towards circular economy practices. The trajectory of the market reflects a fundamental change towards sustainable waste management solutions, positioning FRP recycling as a key contributor to a more environmentally conscious and sustainable future across diverse industries.

Increasing Adoption of Fiber-reinforced Plastic (FRP) Recycling in Construction Industries Propels the Global Fiber-reinforced Plastic (FRP) Recycling Market Growth

The global Fiber-reinforced Plastic (FRP) recycling market is witnessing a surge in growth, propelled by the increasing adoption of recycling practices within the construction industry. As sustainability takes precedence in construction projects, FRP recycling has emerged as a key solution to manage the end-of-life waste generated from the dismantling of structures or the disposal of FRP components. This growing trend within the construction sector is reshaping waste management strategies and contributing significantly to the overall expansion of the FRP recycling market.

One of the primary drivers behind the heightened adoption of FRP recycling in construction is the industry's increasing commitment to sustainable building practices. With stringent regulations and certifications promoting environmentally friendly construction materials and methods, the demand for eco-conscious solutions has become paramount. FRPs, valued for their structural strength and versatility, have become integral to modern construction. However, the challenge arises when these FRP components reach the end of their life cycle. Here, recycling emerges as a sustainable alternative to traditional disposal methods, aligning construction practices with global efforts to reduce environmental impact. Moreover, the construction industry's emphasis on green building materials and eco-friendly construction techniques has led to a paradigm shift in waste management strategies. The escalating awareness of the environmental footprint of construction projects has prompted stakeholders to seek solutions that minimize waste and promote the circular economy. FRP recycling answers this need by providing a systematic and sustainable approach to handle FRP waste, offering the industry a responsible method to manage the environmental consequences associated with the disposal of FRP materials. The versatility of FRP recycling further cements its appeal within the construction sector. As construction projects vary widely in scale, design, and materials used, the ability to recycle FRPs from diverse sources becomes a crucial advantage. FRP recycling processes are adaptable, capable of handling different types of fiber reinforcements and polymer



matrices, making them suitable for the varied applications found in construction, from structural elements to decorative components. This adaptability aligns with the dynamic requirements of construction projects, enhancing the attractiveness of FRP recycling as a viable waste management solution.

Key Market Challenges

High Sorting and Collection Costs Poses a Significant Obstacle to Market Expansion

High sorting and collection costs present a significant obstacle to the market expansion of industries heavily reliant on efficient waste management systems. The expense associated with collecting, sorting, and processing recyclable materials poses a considerable challenge to both public and private sectors. As recycling initiatives become increasingly essential for environmental sustainability, the financial burden of implementing and maintaining sophisticated sorting technologies and extensive collection infrastructure can hinder market growth. Industry stakeholders must explore innovative and cost-effective solutions to streamline waste sorting processes, invest in advanced sorting technologies, and promote public awareness to enhance recycling participation. Collaborative efforts across sectors can help address the challenge of high sorting and collection costs, paving the way for more sustainable waste management practices and supporting the broader market expansion with environmentally responsible initiatives.

Varying Material Compositions

Varying material compositions pose a significant obstacle to the market expansion of industries where consistency and standardization are critical factors. In sectors such as manufacturing and construction, the diverse composition of raw materials can lead to challenges in maintaining product quality and performance. The fluctuating material characteristics, influenced by factors like sourcing variations and regional differences, create hurdles for industries striving for uniformity. This obstacle is particularly pronounced in sectors where precise specifications are crucial, affecting production efficiency and product reliability. To overcome this challenge, stakeholders must invest in quality control measures, explore standardized sourcing practices, and leverage technology for real-time monitoring and adjustments. By addressing the issue of varying material compositions, industries can enhance product reliability, streamline manufacturing processes, and foster market expansion by meeting stringent quality standards and customer expectations.



Key Market Trends

Development of Advanced Recycling Technologies

A crucial trend propelling the growth of the Global Fiber-reinforced Plastic (FRP) Recycling Market is the development of advanced recycling technologies. As the demand for sustainable and eco-friendly practices intensifies, the recycling of fiber-reinforced plastics, which are widely used in various industries, has become a focal point. Traditional recycling methods for FRPs face challenges due to the complex nature of these composite materials. However, the emergence of advanced recycling technologies is addressing these challenges and driving innovation in the FRP recycling landscape. For example, chemical recycling methods, such as pyrolysis and depolymerization, are gaining traction as advanced technologies for breaking down FRPs into their constituent materials. Pyrolysis involves the thermal decomposition of FRPs into smaller molecules, which can be used as feedstock for new materials or energy production. Depolymerization is a process that breaks down polymers into their original monomers, allowing for the recovery of high-quality raw materials for reuse.

Additionally, mechanical recycling methods are also advancing to handle the unique characteristics of fiber-reinforced plastics. Innovations in shredding, grinding, and sorting technologies enable the separation of reinforcing fibers from the plastic matrix, facilitating the recycling of both components. These advancements contribute to a more circular and sustainable approach to managing FRP waste. The development of advanced recycling technologies in the Global Fiber-reinforced Plastic Recycling Market is not only addressing the challenges associated with FRP waste but also creating opportunities for a more circular economy. As regulatory pressures and environmental awareness drive the need for effective FRP recycling solutions, the market's growth is expected to be significantly influenced by the continued advancement of these technologies, promoting a more sustainable and resource-efficient approach to managing fiber-reinforced plastic waste.

Focus on Closed-Loop Recycling

A pivotal trend steering the growth of the Global Fiber-reinforced Plastic (FRP)
Recycling Market is the increasing focus on closed-loop recycling systems. As sustainability becomes a paramount concern across industries, particularly in automotive, aerospace, and construction where FRPs are extensively used, closed-loop recycling offers a strategic approach to managing FRP waste. In a closed-loop system, the recycled FRP materials are reclaimed and reintegrated into the manufacturing



process, creating a continuous cycle that minimizes the need for new raw materials. For example, in the automotive sector, where lightweight and durable FRPs are integral for improving fuel efficiency and overall performance, closed-loop recycling initiatives are gaining prominence. Automotive manufacturers are increasingly investing in closed-loop systems that recover end-of-life FRP components, such as body panels or interior parts, and reintroduce them into the production of new vehicles. This not only reduces the environmental impact associated with FRP production but also enhances the overall sustainability of the automotive supply chain.

Moreover, closed-loop recycling addresses the challenges posed by the heterogeneous nature of FRPs, which often consist of various materials like resins and reinforcing fibers. Advanced sorting and separation technologies are employed to ensure that the recycled materials meet quality standards for reintroduction into manufacturing processes. This focus on closed-loop recycling aligns with circular economy principles, where waste is minimized, and resources are continually reused, reflecting a commitment to sustainable practices and responsible resource management. As industries increasingly prioritize closed-loop recycling strategies for FRPs, the Global Fiber-reinforced Plastic Recycling Market is poised for significant growth. The adoption of closed-loop systems not only mitigates the environmental impact of FRP waste but also contributes to the overall circularity and efficiency of material usage in various sectors, shaping the trajectory of the FRP recycling market on a global scale.

Segmental Insights

End User Industry Insights

Based on the End User, the construction sector has emerged as the dominant player in the global market for fiber-reinforced plastic (FRP) recycling, owing to several key factors that align with the specific needs and requirements of the construction industry. FRP materials, which include composites reinforced with fibers such as glass or carbon, are widely used in the construction sector for applications such as reinforcing concrete structures, manufacturing panels, and creating durable components. The construction industry's significant reliance on FRP materials makes it a major contributor to the overall demand for FRP recycling. The sustainability has become a crucial focus in the construction industry, driven by environmental concerns and the need to reduce the carbon footprint of construction projects. Recycling FRP materials aligns with the industry's sustainability goals, providing a solution to manage waste generated during construction activities and contributing to the circular economy.



The construction sector often generates a substantial amount of FRP waste from demolition, renovation, and manufacturing processes. Efficient recycling practices enable the construction industry to minimize landfill disposal and reduce the environmental impact associated with the disposal of FRP waste. Additionally, recycled FRP materials can offer cost advantages to the construction industry. Utilizing recycled FRP in construction projects can lead to potential cost savings compared to using virgin materials, making it an economically attractive option for construction companies.

Product Type Insights

Based on the product type, the carbon fiber-reinforced plastic (CFRP) segment has established its dominance in the global market for fiber-reinforced plastic (FRP) recycling due to several key advantages and characteristics that make it a preferred choice for recycling efforts. CFRP is widely recognized for its exceptional strength-to-weight ratio, making it a highly sought-after material in industries such as aerospace, automotive, and sporting goods. The inherent strength and durability of carbon fibers contribute to the longevity and high-performance capabilities of CFRP, even after multiple recycling cycles. This durability is crucial in applications where structural integrity is paramount. The carbon fibers are known for their high tensile strength and stiffness, providing excellent mechanical properties to CFRP materials. The recycling process for CFRP can retain a significant portion of these mechanical properties, allowing recycled CFRP to be utilized in various demanding applications, including structural components in construction and manufacturing.

The aerospace and automotive industries, major consumers of CFRP, have stringent performance requirements and safety standards. The ability of recycled CFRP to maintain performance characteristics makes it an attractive option for these industries, aligning with their sustainability goals and reducing reliance on virgin materials. Additionally, the recyclability of CFRP materials addresses environmental concerns associated with the disposal of composite waste. The carbon fiber-reinforced plastic segment's dominance in FRP recycling is reinforced by the industry's commitment to reducing its environmental impact and achieving circular economy objectives.

Regional Insights

Based on the region, the Asia Pacific region has emerged as a hotspot for Fiber-reinforced Plastic (FRP) recycling market growth due to several key factors that highlight the region's dynamic industrial landscape and increasing focus on sustainability. The Asia Pacific region is home to some of the world's largest



manufacturing hubs, encompassing industries such as automotive, construction, and electronics. These industries extensively use FRP materials for various applications, leading to a substantial amount of FRP waste generated. The growing awareness of environmental issues and the need for responsible waste management have prompted increased interest in FRP recycling solutions. The rapid urbanization and industrialization in countries across the Asia Pacific region have led to a surge in construction activities. FRP materials, including composites and reinforced plastics, play a crucial role in construction applications. As a result, there is a significant demand for sustainable practices, including the recycling of FRP waste, to address environmental concerns associated with construction-related waste.

Moreover, the Asia Pacific region is witnessing increased adoption of composites in the aerospace and automotive industries. These industries, particularly in countries like China and India, are recognizing the importance of recycling FRP materials to achieve circular economy goals, reduce reliance on virgin materials, and minimize environmental impact. Additionally, governments in the Asia Pacific region are implementing regulations and initiatives to promote sustainable practices and waste reduction. This includes encouraging the recycling of composite materials, creating a favorable environment for the growth of the FRP recycling market.

Key Market Players

Mitsubishi Chemical Advanced Materials GmbH

Aeron Composite Pvt. Ltd

Carbon Conversions Inc.

Carbon Fiber Recycle Industry Co. Ltd

Conenor Ltd

Eco-Wolf Inc.

Global Fiberglass Solutions

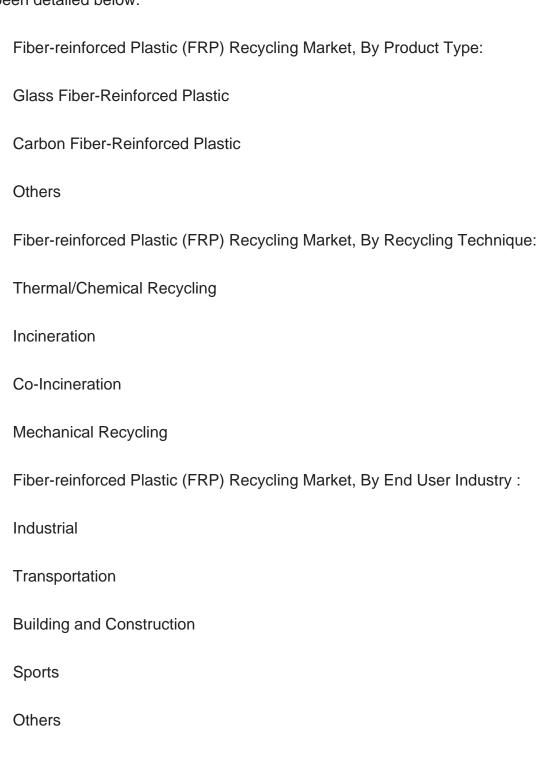
Karborek S.p.a.

MCR Mixt Composites Recyclables SASU



Report Scope:

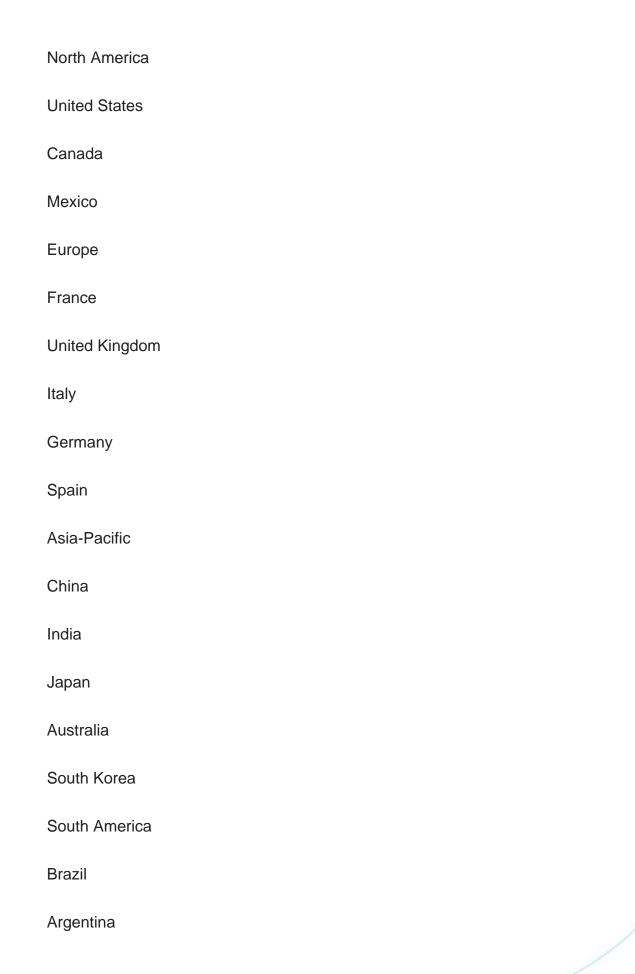
In this report, the Global Fiber-reinforced Plastic (FRP) Recycling Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:



Fiber-reinforced Plastic (FRP) Recycling Market – Global Industry Size, Share, Trends, Opportunity, & Forecast...

Fiber-reinforced Plastic (FRP) Recycling Market, By Region:







Colomb	ia
Middle I	East & Africa
South A	ufrica
Saudi A	ırabia
UAE	
Qatar	
Turkey	
Egypt	
Competitive La	ndscape
	les: Detailed analysis of the major companies present in the Global Fiber tic (FRP) Recycling Market.

Available Customizations:

Global Fiber-reinforced Plastic (FRP) Recycling market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report



Contents

1.PRODUCT OVERVIEW

- 1.1.Market Definition
- 1.2. Scope of the Market
 - 1.2.1.Markets Covered
 - 1.2.2.Years Considered for Study
 - 1.2.3.Key Market Segmentations

2.RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2.Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Source
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation Validation
- 2.7. Assumptions and Limitations

3.EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4.IMPACT OF COVID-19 ON GLOBAL FIBER-REINFORCED PLASTIC (FRP) RECYCLING MARKET

5.VOICE OF CUSTOMER

6.GLOBAL FIBER-REINFORCED PLASTIC (FRP) RECYCLING MARKET OUTLOOK

- 6.1.Market Size Forecast
 - 6.1.1.By Value
- 6.2.Market Share Forecast
 - 6.2.1.By Product Type (Glass Fiber-Reinforced Plastic, Carbon Fiber-Reinforced



Plastic, and Others)

6.2.2.By Recycling Technique (Thermal/Chemical Recycling, Incineration, and Co-Incineration, and Mechanical Recycling)

6.2.3.By End User Industry (Industrial, Transportation, Building and Construction, Sports, and Others)

6.2.4.By Region

6.2.5.By Company (2023)

6.3. Market Map

7.ASIA PACIFIC FIBER-REINFORCED PLASTIC (FRP) RECYCLING MARKET OUTLOOK

- 7.1.Market Size Forecast
 - 7.1.1.By Value
- 7.2. Market Share Forecast
 - 7.2.1.By Product Type
 - 7.2.2.By Recycling Technique
 - 7.2.3.By End User Industry
 - 7.2.4.By Country
- 7.3. Asia Pacific: Country Analysis
 - 7.3.1. China Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 7.3.1.1.Market Size Forecast
 - 7.3.1.1.1.By Value
 - 7.3.1.2.Market Share Forecast
 - 7.3.1.2.1.By Product Type
 - 7.3.1.2.2.By Recycling Technique
 - 7.3.1.2.3.By End User Industry
 - 7.3.2.India Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 7.3.2.1.Market Size Forecast
 - 7.3.2.1.1.By Value
 - 7.3.2.2.Market Share Forecast
 - 7.3.2.2.1.By Product Type
 - 7.3.2.2.2.By Recycling Technique
 - 7.3.2.2.3.By End User Industry
 - 7.3.3. Australia Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 7.3.3.1.Market Size Forecast
 - 7.3.3.1.1.By Value
 - 7.3.3.2.Market Share Forecast
 - 7.3.3.2.1.By Product Type



- 7.3.3.2.2.By Recycling Technique
- 7.3.3.2.3.By End User Industry
- 7.3.4. Japan Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 7.3.4.1.Market Size Forecast
 - 7.3.4.1.1.By Value
- 7.3.4.2.Market Share Forecast
 - 7.3.4.2.1.By Product Type
 - 7.3.4.2.2.By Recycling Technique
 - 7.3.4.2.3.By End User Industry
- 7.3.5. South Korea Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 7.3.5.1.Market Size Forecast
 - 7.3.5.1.1.By Value
 - 7.3.5.2.Market Share Forecast
 - 7.3.5.2.1.By Product Type
 - 7.3.5.2.2.By Recycling Technique
 - 7.3.5.2.3.By End User Industry

8.EUROPE FIBER-REINFORCED PLASTIC (FRP) RECYCLING MARKET OUTLOOK

- 8.1.Market Size Forecast
 - 8.1.1.By Value
- 8.2.Market Share Forecast
 - 8.2.1.By Product Type
 - 8.2.2.By Recycling Technique
 - 8.2.3.By End User Industry
 - 8.2.4.By Country
- 8.3. Europe: Country Analysis
 - 8.3.1.France Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 8.3.1.1.Market Size Forecast
 - 8.3.1.1.1.By Value
 - 8.3.1.2. Market Share Forecast
 - 8.3.1.2.1.By Product Type
 - 8.3.1.2.2.By Recycling Technique
 - 8.3.1.2.3.By End User Industry
 - 8.3.2.Germany Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 8.3.2.1.Market Size Forecast
 - 8.3.2.1.1.By Value
 - 8.3.2.2.Market Share Forecast
 - 8.3.2.2.1.By Product Type



- 8.3.2.2.2.By Recycling Technique
- 8.3.2.2.3.By End User Industry
- 8.3.3. Spain Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 8.3.3.1.Market Size Forecast
 - 8.3.3.1.1.By Value
 - 8.3.3.2.Market Share Forecast
 - 8.3.3.2.1.By Product Type
 - 8.3.3.2.2.By Recycling Technique
 - 8.3.3.2.3.By End User Industry
- 8.3.4. Italy Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 8.3.4.1.Market Size Forecast
 - 8.3.4.1.1.By Value
 - 8.3.4.2.Market Share Forecast
 - 8.3.4.2.1.By Product Type
 - 8.3.4.2.2.By Recycling Technique
 - 8.3.4.2.3.By End User Industry
- 8.3.5. United Kingdom Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 8.3.5.1.Market Size Forecast
 - 8.3.5.1.1.By Value
 - 8.3.5.2. Market Share Forecast
 - 8.3.5.2.1.By Product Type
 - 8.3.5.2.2.By Recycling Technique
 - 8.3.5.2.3.By End User Industry

9.NORTH AMERICA FIBER-REINFORCED PLASTIC (FRP) RECYCLING MARKET OUTLOOK

- 9.1.Market Size Forecast
 - 9.1.1.By Value
- 9.2.Market Share Forecast
 - 9.2.1.By Product Type
 - 9.2.2.By Recycling Technique
 - 9.2.3.By End User Industry
 - 9.2.4.By Country
- 9.3. North America: Country Analysis
 - 9.3.1. United States Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 9.3.1.1.Market Size Forecast
 - 9.3.1.1.1.By Value
 - 9.3.1.2. Market Share Forecast



- 9.3.1.2.1.By Product Type
- 9.3.1.2.2.By Recycling Technique
- 9.3.1.2.3.By End User Industry
- 9.3.2. Mexico Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 9.3.2.1.Market Size Forecast
 - 9.3.2.1.1.By Value
 - 9.3.2.2.Market Share Forecast
 - 9.3.2.2.1.By Product Type
 - 9.3.2.2.2.By Recycling Technique
 - 9.3.2.2.3.By End User Industry
- 9.3.3. Canada Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 9.3.3.1.Market Size Forecast
 - 9.3.3.1.1.By Value
 - 9.3.3.2.Market Share Forecast
 - 9.3.3.2.1.By Product Type
 - 9.3.3.2.2.By Recycling Technique
 - 9.3.3.2.3.By End User Industry

10.SOUTH AMERICA FIBER-REINFORCED PLASTIC (FRP) RECYCLING MARKET OUTLOOK

- 10.1.Market Size Forecast
 - 10.1.1.By Value
- 10.2.Market Share Forecast
- 10.2.1.By Product Type
- 10.2.2.By Recycling Technique
- 10.2.3.By End User Industry
- 10.2.4.By Country
- 10.3. South America: Country Analysis
 - 10.3.1.Brazil Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 10.3.1.1.Market Size Forecast
 - 10.3.1.1.1.By Value
 - 10.3.1.2.Market Share Forecast
 - 10.3.1.2.1.By Product Type
 - 10.3.1.2.2.By Recycling Technique
 - 10.3.1.2.3.By End User Industry
 - 10.3.2. Argentina Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 10.3.2.1.Market Size Forecast
 - 10.3.2.1.1.By Value



10.3.2.2.Market Share Forecast

10.3.2.2.1.By Product Type

10.3.2.2.By Recycling Technique

10.3.2.2.3.By End User Industry

10.3.3.Colombia Fiber-reinforced Plastic (FRP) Recycling Market Outlook

10.3.3.1.Market Size Forecast

10.3.3.1.1.By Value

10.3.3.2.Market Share Forecast

10.3.3.2.1.By Product Type

10.3.3.2.2.By Recycling Technique

10.3.3.2.3.By End User Industry

11.MIDDLE EAST AND AFRICA FIBER-REINFORCED PLASTIC (FRP) RECYCLING MARKET OUTLOOK

11.1.Market Size Forecast

11.1.1.By Value

11.2.Market Share Forecast

11.2.1.By Product Type

11.2.2.By Recycling Technique

11.2.3.By End User Industry

11.2.4.By Country

11.3.MEA: Country Analysis

11.3.1.South Africa Fiber-reinforced Plastic (FRP) Recycling Market Outlook

11.3.1.1.Market Size Forecast

11.3.1.1.1.By Value

11.3.1.2.Market Share Forecast

11.3.1.2.1.By Product Type

11.3.1.2.2.By Recycling Technique

11.3.1.2.3.By End User Industry

11.3.2. Saudi Arabia Fiber-reinforced Plastic (FRP) Recycling Market Outlook

11.3.2.1.Market Size Forecast

11.3.2.1.1.By Value

11.3.2.2.Market Share Forecast

11.3.2.2.1.By Product Type

11.3.2.2.2.By Recycling Technique

11.3.2.2.3.By End User Industry

11.3.3.UAE Fiber-reinforced Plastic (FRP) Recycling Market Outlook

11.3.3.1.Market Size Forecast



- 11.3.3.1.1.By Value
- 11.3.3.2.Market Share Forecast
 - 11.3.3.2.1.By Product Type
 - 11.3.3.2.2.By Recycling Technique
- 11.3.3.2.3.By End User Industry
- 11.3.4.Qatar Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 11.3.4.1.Market Size Forecast
 - 11.3.4.1.1.By Value
 - 11.3.4.2.Market Share Forecast
 - 11.3.4.2.1.By Product Type
 - 11.3.4.2.2.By Recycling Technique
 - 11.3.4.2.3.By End User Industry
- 11.3.5. Turkey Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 11.3.5.1.Market Size Forecast
 - 11.3.5.1.1.By Value
 - 11.3.5.2.Market Share Forecast
 - 11.3.5.2.1.By Product Type
 - 11.3.5.2.2.By Recycling Technique
 - 11.3.5.2.3.By End User Industry
- 11.3.6.Egypt Fiber-reinforced Plastic (FRP) Recycling Market Outlook
 - 11.3.6.1.Market Size Forecast
 - 11.3.6.1.1.By Value
 - 11.3.6.2.Market Share Forecast
 - 11.3.6.2.1.By Product Type
 - 11.3.6.2.2.By Recycling Technique
 - 11.3.6.2.3.By End User Industry

12.MARKET DYNAMICS

- 12.1.Drivers
- 12.2.Challenges

13.MARKET TRENDS DEVELOPMENTS

- 13.1.Recent Developments
- 13.2.Product Launches
- 13.3. Mergers Acquisitions

14.GLOBAL FIBER-REINFORCED PLASTIC (FRP) RECYCLING MARKET: SWOT



ANALYSIS

15.PRICING ANALYSIS

16.PORTER'S FIVE FORCES ANALYSIS

- 16.1.Competition in the Industry
- 16.2. Potential of New Entrants
- 16.3. Power of Suppliers
- 16.4. Power of Customers
- 16.5. Threat of Substitute Application

17.PESTLE ANALYSIS

18.COMPETITIVE LANDSCAPE

- 18.1.Mitsubishi Chemical Advanced Materials GmbH
 - 18.1.1. Business Overview
 - 18.1.2.Company Snapshot
 - 18.1.3. Product Services
 - 18.1.4. Financials (In case of listed companies)
 - 18.1.5.Recent Developments
 - 18.1.6.SWOT Analysis
- 18.2.Aeron Composite Pvt. Ltd
- 18.3. Carbon Conversions Inc.
- 18.4. Carbon Fiber Recycle Industry Co. Ltd
- 18.5.Conenor Ltd
- 18.6.Eco-Wolf Inc.
- 18.7. Global Fiberglass Solutions
- 18.8.Karborek S.p.a
- 18.9.MCR Mixt Composites Recyclables SASU

19.STRATEGIC RECOMMENDATIONS

20. ABOUT US DISCLAIMER



I would like to order

Product name: Fiber-reinforced Plastic (FRP) Recycling Market – Global Industry Size, Share, Trends,

Opportunity, & Forecast, Segmented By Product Type (Glass Fiber-Reinforced Plastic,

Carbon Fiber-Reinforced Plastic, and Others), By Recycling Technique

(Thermal/Chemical Recycling, Incineration, Co-Incineration and Mechanical Recycling), By End User Industry (Industrial, Transportation, Building and Construction, Sports,

Others), By Region, Competition, 2019-2029F

Product link: https://marketpublishers.com/r/F1942724EE3FEN.html

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/F1942724EE3FEN.html