

## **Germany Fiber-Reinforced Plastic (Frp) Recycling Market**

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### **AVAILABLE LICENSES:**

- Single User Price \$1100.00
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### **Report description:**

#### **KEY FINDINGS**

The Germany fiber-reinforced plastic (FRP) recycling market is projected to grow at a CAGR of 8.51% during the forecast period of 2024-2032, reaching a revenue of \$115.85 million by 2032. In terms of volume, the market is projected to register a CAGR of 8.15% during the projection years, reaching 28785.50 tons by 2032.

#### **MARKET INSIGHTS**

Germany, recognized for its engineering excellence and dedication to environmental sustainability, is experiencing significant growth in the recycled carbon fiber-reinforced plastic (FRP) market. This expansion is driven by the increasing adoption of composite materials across various industries, including aerospace and defense, automotive, construction, transportation, and wind energy. Moreover, the ongoing advancements in composite technology are further fueling this trend, fostering innovation, and amplifying the demand for sustainable materials.

Central to this shift is the German government's focus on environmentally friendly products, which aligns with European Union regulations mandating that 85% of vehicle materials must be recyclable. Recycled FRPs, particularly in the wind energy sector, are poised to play a crucial role in Germany's renewable energy transition. According to estimates from the Offshore Renewable Energy Catapult, the anticipated decommissioning of both offshore and onshore wind turbines by 2050 is expected to significantly increase FRP waste from the wind sector, thereby driving the need for effective FRP recycling solutions.

In addition, Germany's position as Europe's largest composites market highlights its pivotal role in advancing FRP recycling. While glass-fiber-reinforced plastics (GFRP) currently dominate the market, there is a growing demand for carbon fiber composites, especially in the aerospace and automotive industries, due to their superior tensile strength and lightweight properties. The presence of major players such as Evonik, BASF, Krempel, and Covestro further underscores Germany's strong composite ecosystem, which includes a mix of small to medium-sized enterprises and larger corporations involved in the production and processing of composite materials.

Additionally, local clusters like the carbon fiber cluster MAI Carbon in Bavaria play a vital role in illustrating Germany's collaborative approach to advancing composite research and development. These clusters, which focus on advanced materials and lightweight solutions, act as innovation hubs, promoting collaboration among industry stakeholders and driving technological progress across FRP recycling in Germany.

#### **SEGMENTATION ANALYSIS**

The Germany fiber-reinforced plastic (FRP) recycling market segmentation includes product type, recycling technique, and

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end-user. The product type segment is further classified into glass-fiber-reinforced plastic and carbon-fiber-reinforced plastic. Glass-fiber-reinforced plastic (GFRP) is recognized for its versatility and widespread use across multiple industries, attributed to its ease of formation and exceptional design flexibility. Its applications span critical sectors such as construction, energy, transportation, national defense, chemical engineering, and electronic power. However, the increased use of GFRP has led to a significant rise in waste generation from this material.

The growing volume of GFRP waste highlights the urgent need for effective recycling solutions. Although some GFRP scrap is repurposed in the construction industry, there is a burgeoning demand for innovative recycling approaches. Furthermore, government regulations enforcing sustainable waste disposal practices and the expanding range of applications for recycled GFRP are driving advancements in recycling technologies.

New manufacturing techniques, such as UV-assisted 3D printing and metallization via Physical Vapor Deposition, are revitalizing recycled GFRP. These innovations enable the transformation of end-of-life wind turbines and aerospace components into a variety of products, including bathtubs, shower trays, creative packaging, and sporting equipment like skis.

#### COMPETITIVE INSIGHTS

The top companies operating in the Germany fiber-reinforced plastic (FRP) recycling market include Global Fiberglass Solutions, MCR Mixt Composites Recyclables, Mitsubishi Chemical Group Corporation, etc.

Neocomp GmbH, a subsidiary of Neowa GmbH, is a leading company specializing in the recycling of glass fiber-reinforced plastics (GRP). The company, headquartered in Germany, is recognized for its expertise in processing discarded rotor blades from the wind power sector, GRP production residues from the automotive, leisure, and electrical industries, as well as materials from marine and aviation applications. These materials are transformed into high-quality refuse-derived fuels (RDF) and recycled fibers. Neocomp GmbH serves a diverse range of industries, including oil and gas, construction, and clients requiring alternative fuels and recycled fibers. The company extends its services to several other European countries, including France, Austria, Benelux, Switzerland, Sweden, and Denmark.

#### Table of Contents:

##### TABLE OF CONTENTS

##### 1. RESEARCH SCOPE & METHODOLOGY

###### 1.1. STUDY OBJECTIVES

###### 1.2. METHODOLOGY

###### 1.3. ASSUMPTIONS & LIMITATIONS

##### 2. EXECUTIVE SUMMARY

###### 2.1. MARKET SIZE & ESTIMATES

###### 2.2. COUNTRY SNAPSHOT

###### 2.3. COUNTRY ANALYSIS

###### 2.4. SCOPE OF STUDY

###### 2.5. CRISIS SCENARIO ANALYSIS

###### 2.6. MAJOR MARKET FINDINGS

###### 2.6.1. INCREASING EMPHASIS ON CIRCULAR ECONOMY INITIATIVES

###### 2.6.2. ADVANCING ADOPTION OF FRP MATERIALS

##### 3. MARKET DYNAMICS

###### 3.1. KEY DRIVERS

###### 3.1.1. GROWING ACCUMULATION OF COMPOSITE WASTE

###### 3.1.2. STRINGENT REGULATIONS ON COMPOSITE DISPOSAL

###### 3.1.3. INNOVATIVE CFRP REUTILIZATION CAMPAIGNS

###### 3.1.4. HEIGHTENED ENVIRONMENTAL AWARENESS

###### 3.2. KEY RESTRAINTS

###### 3.2.1. INADEQUATE RECYCLING TECHNIQUES FOR CFRP AND COMPLEX FRP RECYCLING PROCESS

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- 3.2.2. AWARENESS DEFICIENCY REGARDING CFRP RECYCLING
- 4. KEY ANALYTICS
  - 4.1. KEY MARKET TRENDS
    - 4.1.1. SURGE IN RECYCLED FIBER-REINFORCED PLASTIC PRODUCTS
    - 4.1.2. ADVANCEMENTS IN COMPOSITE RECYCLING
    - 4.1.3. RESEARCH AND DEVELOPMENT TRENDS SHAPING FRP RECYCLING MARKETS
  - 4.2. PESTLE ANALYSIS
    - 4.2.1. POLITICAL
    - 4.2.2. ECONOMICAL
    - 4.2.3. SOCIAL
    - 4.2.4. TECHNOLOGICAL
    - 4.2.5. LEGAL
    - 4.2.6. ENVIRONMENTAL
  - 4.3. PORTER'S FIVE FORCES ANALYSIS
    - 4.3.1. BUYERS POWER
    - 4.3.2. SUPPLIERS POWER
    - 4.3.3. SUBSTITUTION
    - 4.3.4. NEW ENTRANTS
    - 4.3.5. INDUSTRY RIVALRY
  - 4.4. MARKET CONCENTRATION ANALYSIS
  - 4.5. VALUE CHAIN ANALYSIS
    - 4.5.1. RAW MATERIALS
    - 4.5.2. RECYCLING AND DISPOSAL TECHNIQUE
    - 4.5.3. END PRODUCT
    - 4.5.4. APPLICATIONS
- 5. MARKET BY PRODUCT TYPE (IN TERMS OF REVENUE: \$ MILLION, IN TERMS OF VOLUME: TONS)
  - 5.1. GLASS-FIBER-REINFORCED PLASTIC
    - 5.1.1. MARKET FORECAST FIGURE
    - 5.1.2. SEGMENT ANALYSIS
  - 5.2. CARBON-FIBER-REINFORCED PLASTIC
    - 5.2.1. MARKET FORECAST FIGURE
    - 5.2.2. SEGMENT ANALYSIS
- 6. MARKET BY RECYCLING TECHNIQUE
  - 6.1. THERMAL/CHEMICAL RECYCLING
    - 6.1.1. MARKET FORECAST FIGURE
    - 6.1.2. SEGMENT ANALYSIS
  - 6.2. INCINERATION AND COINCINERATION
    - 6.2.1. MARKET FORECAST FIGURE
    - 6.2.2. SEGMENT ANALYSIS
  - 6.3. MECHANICAL RECYCLING (SIZE REDUCTION)
    - 6.3.1. MARKET FORECAST FIGURE
    - 6.3.2. SEGMENT ANALYSIS
- 7. MARKET BY END-USER
  - 7.1. INDUSTRIAL
    - 7.1.1. MARKET FORECAST FIGURE
    - 7.1.2. SEGMENT ANALYSIS
  - 7.2. TRANSPORTATION

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- 7.2.1. MARKET FORECAST FIGURE
- 7.2.2. SEGMENT ANALYSIS
- 7.3. BUILDING AND CONSTRUCTION
  - 7.3.1. MARKET FORECAST FIGURE
  - 7.3.2. SEGMENT ANALYSIS
- 7.4. SPORTS
  - 7.4.1. MARKET FORECAST FIGURE
  - 7.4.2. SEGMENT ANALYSIS
- 7.5. OTHER END-USERS
  - 7.5.1. MARKET FORECAST FIGURE
  - 7.5.2. SEGMENT ANALYSIS
- 8. COMPETITIVE LANDSCAPE
  - 8.1. KEY STRATEGIC DEVELOPMENTS
    - 8.1.1. PRODUCT LAUNCHES & DEVELOPMENTS
    - 8.1.2. PARTNERSHIPS & AGREEMENTS
  - 8.2. COMPANY PROFILES
    - 8.2.1. GLOBAL FIBERGLASS SOLUTIONS
      - 8.2.1.1. COMPANY OVERVIEW
      - 8.2.1.2. PRODUCTS
    - 8.2.2. MCR MIXT COMPOSITES RECYCLABLES
      - 8.2.2.1. COMPANY OVERVIEW
      - 8.2.2.2. PRODUCTS
    - 8.2.3. MITSUBISHI CHEMICAL GROUP CORPORATION
      - 8.2.3.1. COMPANY OVERVIEW
      - 8.2.3.2. PRODUCTS
      - 8.2.3.3. STRENGTHS & CHALLENGES
    - 8.2.4. NEOCOMP GMBH
      - 8.2.4.1. COMPANY OVERVIEW
      - 8.2.4.2. PRODUCTS
    - 8.2.5. TORAY INDUSTRIES INC
      - 8.2.5.1. COMPANY OVERVIEW
      - 8.2.5.2. PRODUCTS
      - 8.2.5.3. STRENGTHS & CHALLENGES

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