

Global GFRP Composites Market Size Study and Forecast by End-Use Industry (Transportation, Electrical & Electronics, Wind Energy, Pipes & Tanks, Construction & Infrastructure, Marine, Aerospace & Defense, Others), Resin Type (Epoxy, Polyester, Vinyl Ester, Polyurethane, Thermoplastic, Others), Manufacturing Process (Compression & Injection Molding, RTM/VARTM, Layup, Filament Winding, Pultrusion, Others), and Regional Forecasts 2025–2035

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Abstracts

Glass Fiber Reinforced Polymer (GFRP) composites are engineered materials composed of glass fibers embedded within a polymer resin matrix, designed to deliver high strength-to-weight ratio, corrosion resistance, and durability. These composites are widely used across transportation, wind energy, construction, electrical & electronics, marine, and aerospace & defense sectors. The value chain includes glass fiber manufacturers, resin producers, composite fabricators, OEMs, and engineering solution providers specializing in lightweight structural applications.

Over the past decade, the GFRP composites market has transitioned from niche industrial applications to mainstream structural and mobility solutions. Increasing emphasis on lightweighting, renewable energy deployment, and corrosion-resistant infrastructure has expanded application scope. Technological advancements in resin chemistry, automated manufacturing processes, and thermoplastic composites have enhanced scalability and cost efficiency. As industries intensify decarbonization efforts

and performance optimization, GFRP composites are emerging as a strategic material platform. Between 2025 and 2035, the market is expected to expand at a robust CAGR of 10.10%, reflecting strong adoption across energy, transportation, and infrastructure domains.

Key Findings of the Report

Market Size (2024): USD 24 billion

Estimated Market Size (2035): USD 69.16 billion

CAGR (2025–2035): 10.10%

Leading Regional Market: Asia Pacific

Leading Segment: Wind Energy under End-Use Industry

Market Determinants

Acceleration of Renewable Energy Infrastructure

Wind energy remains a primary growth engine for GFRP composites, particularly in turbine blade manufacturing. The need for longer, lighter, and more durable blades supports advanced composite adoption, directly influencing material demand and revenue expansion.

Lightweighting in Transportation

Automotive, rail, and aerospace sectors are increasingly integrating GFRP components to improve fuel efficiency and reduce emissions. Regulatory pressure to lower carbon footprints amplifies the strategic relevance of lightweight composite solutions.

Infrastructure Modernization and Corrosion Resistance Needs

GFRP materials offer superior corrosion resistance compared to steel, making them suitable for bridges, pipelines, and marine structures. Aging infrastructure replacement programs globally create sustained demand for composite alternatives.

Advancements in Resin and Thermoplastic Technologies

The development of high-performance epoxy and thermoplastic resins enhances recyclability and structural integrity. Improved resin formulations expand high-temperature and high-load applications, broadening market reach.

Cost and Recycling Challenges

Despite performance advantages, higher upfront costs and end-of-life recycling limitations constrain broader adoption. Addressing lifecycle economics and circularity will be critical for long-term scalability.

Opportunity Mapping Based on Market Trends

Offshore and Onshore Wind Expansion

Global renewable energy targets are increasing turbine installations.

- Larger rotor blade manufacturing

- Offshore wind structural components

- High-fatigue-resistant composite systems

Investments in blade production capacity and advanced resin systems offer strong growth potential.

Electric Vehicle and Sustainable Mobility Integration

EV manufacturers are prioritizing lightweight materials.

- Structural body panels

- Battery enclosure components

- Modular composite chassis elements

Composite integration enhances energy efficiency and range optimization.

Smart and Resilient Infrastructure

Infrastructure upgrades are shifting toward durable, low-maintenance materials.

- GFRP rebar for bridges

- Composite pipelines and storage tanks

- Marine-grade structural reinforcements

Public-private partnerships and sustainability-driven procurement policies amplify opportunity.

Automation and High-Throughput Manufacturing

Process innovations are improving production efficiency.

- Automated RTM/VARTM systems

- Advanced pultrusion lines

- Integrated compression molding technologies

Scaling automated production reduces costs and enhances competitiveness.

Key Market Segments

By End-Use Industry:

- Transportation

- Electrical & Electronics

- Wind Energy

Pipes & Tanks

Construction & Infrastructure

Marine

Aerospace & Defense

Others

By Resin Type:

Epoxy

Polyester

Vinyl Ester

Polyurethane

Thermoplastic

Others

By Manufacturing Process:

Compression & Injection Molding

RTM/VARTM

Layup

Filament Winding

Pultrusion

Others

Value-Creating Segments and Growth Pockets

Wind energy currently dominates end-use demand due to large-scale blade manufacturing and global renewable energy investments. Construction & infrastructure and pipes & tanks also represent significant revenue contributors, driven by durability and corrosion resistance advantages.

Epoxy resins hold a leading share owing to superior mechanical properties and compatibility with structural applications. However, thermoplastic resins are expected to grow at a faster pace, supported by recyclability and shorter processing cycles.

In manufacturing processes, layup and pultrusion remain widely adopted for structural applications. Nevertheless, RTM/VARTM and automated compression molding are projected to witness accelerated growth due to efficiency gains and scalability in high-volume production.

Regional Market Assessment

North America

North America exhibits strong demand from wind energy installations, aerospace innovation, and infrastructure rehabilitation projects. Policy support for renewable energy strengthens regional growth prospects.

Europe

Europe's market is driven by aggressive decarbonization targets and offshore wind expansion. Advanced automotive manufacturing and sustainability mandates encourage composite adoption.

Asia Pacific

Asia Pacific leads the global market due to extensive wind turbine production, rapid urbanization, and expanding transportation infrastructure. Cost-effective manufacturing ecosystems reinforce regional dominance.

LAMEA

The LAMEA region demonstrates emerging growth, supported by renewable energy projects and infrastructure investments in the Middle East and Latin America. Industrial diversification initiatives create incremental opportunities.

Recent Developments

March 2024: Expansion of offshore wind blade manufacturing facilities to support growing renewable capacity installations, reinforcing composite demand.

October 2023: Launch of recyclable thermoplastic GFRP solutions aimed at improving lifecycle sustainability and circular economy alignment.

June 2023: Strategic investment in automated pultrusion lines to enhance high-volume infrastructure component production efficiency.

Critical Business Questions Addressed

What drives the projected 10.10% CAGR in the GFRP composites market?

Accelerated renewable energy deployment, transportation lightweighting, and infrastructure modernization underpin growth.

Which end-use industries generate the highest value?

Wind energy leads in scale, while aerospace & defense and transportation offer high-margin opportunities.

How will resin innovation influence competitiveness?

Advanced epoxy and thermoplastic solutions enhance performance, recyclability, and production efficiency.

What manufacturing processes present scalability advantages?

RTM/VARTM and automated compression molding improve throughput and cost efficiency.

Which regions offer the most strategic expansion opportunities?

Asia Pacific provides scale-driven growth, while Europe and North America emphasize innovation and sustainability.

Beyond the Forecast

The GFRP composites market is evolving into a cornerstone material platform for renewable energy and sustainable mobility ecosystems. Long-term success will depend on balancing performance with cost optimization and recyclability. Companies that integrate advanced resin chemistry, automated manufacturing, and sustainability-driven value propositions will shape the next decade of composite innovation.

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