

Global Fiber Reinforced Polymer Rebars Market Size study, by Fiber Type (Glass, Carbon, Basalt), by Resin Type (Vinyl Ester, Epoxy), by Application (Highways, Bridges & Buildings; Marine Structures & Waterfronts; Water Treatment Plants), and Regional Forecasts 2022-2032

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Abstracts

The Global Fiber Reinforced Polymer Rebars Market is valued approximately at USD 0.23 billion in 2023 and is poised to surge at a compound annual growth rate of over 13% between 2024 and 2032. Fiber reinforced polymer (FRP) rebars, known for their superior corrosion resistance, high tensile strength, and lightweight properties, are gradually replacing traditional steel reinforcements in various infrastructure and construction applications. As modern civil engineering projects become increasingly sustainability-driven and longevity-focused, FRP rebars have emerged as a future-forward material, especially in harsh environments like marine structures, chemically exposed water treatment facilities, and coastal bridges. These reinforcements significantly extend the lifecycle of concrete structures while minimizing maintenance overhead, making them a lucrative choice in both public and private sector projects.

The accelerating demand for resilient infrastructure, particularly in coastal and urban zones prone to environmental stressors, is fueling a paradigm shift toward non-corrosive reinforcements. Governments worldwide are incorporating FRP solutions in their infrastructure modernization agendas, while contractors are leaning on FRP rebars to meet sustainability benchmarks and reduce lifecycle costs. Innovations in resin formulation—most notably, advanced epoxy systems—and fiber selection such as high-modulus carbon and cost-effective basalt, are enabling greater application flexibility. The growing popularity of precast concrete elements and modular construction further

enhances the appeal of FRP rebars, given their compatibility with automated and high-throughput production systems.

Nonetheless, the market does face a few bottlenecks. High upfront costs of FRP rebars compared to conventional steel, limited awareness among civil engineers, and code compliance issues in some regions hinder mass-scale adoption. However, these challenges are being systematically addressed through global standardization efforts, pilot programs, and manufacturer-led educational initiatives. The expanding portfolio of case studies showcasing long-term savings and enhanced performance is steadily shifting market perception, leading to broader acceptance across commercial, industrial, and governmental construction projects.

Regionally, North America dominates the FRP rebars landscape due to early adoption, robust government funding for sustainable infrastructure, and a well-established regulatory framework. The U.S. market, in particular, is characterized by extensive utilization in bridge deck reinforcement and corrosion-prone environments. Europe follows closely, with growing traction in marine engineering and green building certifications. Meanwhile, Asia Pacific is anticipated to register the fastest growth, driven by rapid urbanization, infrastructural megaprojects in China and India, and increasing awareness regarding structural durability. Latin America and the Middle East & Africa are also emerging as high-potential territories as governments seek to build long-lasting public infrastructure in resource-constrained environments.

Major market players included in this report are:

Owens Corning

Sireg Geotech Srl

Pultrall Inc.

Dextra Group

FiReP Rebar Technology Inc.

Hughes Brothers Inc.

Marshall Composites Systems

Sch?ck Bauteile GmbH

Armastek Group

BP Composites Ltd.

Composite Rebar Technologies (CRT)

Kodiak Fiberglass Rebar LLC

TUF-BAR Inc.

Neuvokas Corporation

Technobasalt-Invest LLC

The detailed segments and sub-segment of the market are explained below:

By Fiber Type

Glass

Carbon

Basalt

By Resin Type

Vinyl Ester

Epoxy

By Application

Highways, Bridges & Buildings

Marine Structures & Waterfronts

Water Treatment Plants

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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