

Glass Reinforced Plastics (Grp) Pipes Market Outlook 2025-2034: Market Share, and Growth Analysis By Resin(Epoxy, Polyester, Vinyl Ester, Other Resins), By Application(Water Treatment, Sewage Piping, Oil And Gas Pipes, Chemical Processing, Pumping Systems, Marine And Offshore, Other Applications.), By End-Use Industry

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Abstracts

The Glass Reinforced Plastics (Grp) Pipes Market is valued at USD 7.1 billion in 2025 and is projected to grow at a CAGR of 7.6% to reach USD 13.7 billion by 2034.

Glass Reinforced Plastics (GRP) Pipes Market Overview

The Glass Reinforced Plastics (GRP) pipes market is witnessing sustained growth owing to the rising demand for lightweight, corrosion-resistant, and durable piping solutions across industries. GRP pipes, made by reinforcing glass fibers with thermosetting resins, offer a high strength-to-weight ratio and extended lifecycle, making them a preferred choice over traditional metal or concrete pipes. Sectors such as water and wastewater management, oil and gas, industrial processing, and chemical transportation are key application areas driving demand. As infrastructure upgrades accelerate and industries shift toward low-maintenance materials, GRP pipes are gaining increased traction worldwide. Their growing adoption, especially in emerging economies, is also supported by cost-efficiency in transportation and installation. Market participants are focusing on customized pipe solutions, sustainable manufacturing, and innovation in resins and fiber reinforcements to meet evolving customer requirements. The overall GRP pipes market continues to reflect resilience, backed by long-term infrastructure goals and the need for efficient fluid transportation systems. The GRP

pipes market saw notable advancements in both manufacturing technology and global adoption. Automation and precision engineering became more integral in pipe fabrication, improving consistency, quality, and production speed. Key manufacturers embraced digital twins and IoT-integrated pipe systems to enhance operational transparency and predictive maintenance, especially in large-scale water management and oil and gas networks. Government initiatives promoting green infrastructure and stricter regulations on leakage and water loss further increased GRP pipe installation in municipal water systems. Regionally, Asia-Pacific and the Middle East witnessed heightened demand due to rapid urban expansion and large-scale infrastructure investments. Additionally, several EPC contractors and utility firms began preferring GRP over traditional alternatives due to ease of handling and lower lifecycle costs. Mergers and partnerships intensified, as companies aimed to expand their geographical presence and cater to custom application requirements, especially in energy and desalination projects. 2024 thus marked a turning point in repositioning GRP pipes as a modern solution aligned with industry 4.0 principles. The GRP pipes market is expected to evolve through a combination of material innovation, digital integration, and sustainability-driven strategies. Manufacturers are anticipated to invest heavily in bio-based resins and recyclable composites to align with global decarbonization goals and circular economy frameworks. Smart pipe systems equipped with sensors for real-time monitoring of pressure, flow, and structural health will become increasingly mainstream, particularly in critical infrastructure. Demand is forecasted to grow in sectors such as offshore energy, hydrogen transportation, and district cooling, where GRP's corrosion resistance and thermal insulation offer significant advantages. Furthermore, increased public-private collaborations for water infrastructure modernization in developing regions will support market expansion. Companies are likely to focus on offering turnkey solutions—design, supply, and installation—to enhance value delivery and differentiate in a competitive landscape. As global economies recover and climate resilience becomes a central agenda, GRP pipes are poised to play a crucial role in shaping efficient, long-lasting, and sustainable fluid management systems.

Key Insights Glass Reinforced Plastics (Grp) Pipes Market

Rising integration of IoT and smart sensors in GRP piping systems is enabling predictive maintenance and real-time performance tracking, significantly reducing downtime and enhancing operational reliability.

Growing use of GRP pipes in desalination plants and offshore oil rigs is driven by their excellent corrosion resistance to saline and harsh environments, boosting their utility in marine infrastructure.

Manufacturers are increasingly adopting automation and robotic winding in GRP pipe production to improve uniformity, reduce labor costs, and scale up production for large infrastructure projects.

Custom-engineered GRP pipes tailored for specific industrial applications, such as chemical resistance or high-pressure endurance, are gaining popularity across sectors like power and petrochemicals.

Focus on sustainable materials, including the use of recycled glass fibers and low-VOC resins, is becoming a key trend as environmental compliance and green certifications gain market relevance.

Growing infrastructure development in emerging economies is driving demand for long-lasting and cost-effective piping systems, positioning GRP as a preferred material over traditional options.

Increasing water scarcity and investments in water reuse and desalination projects are boosting GRP pipe installations due to their chemical resistance and low maintenance needs.

Stringent environmental regulations are encouraging industries to adopt leak-proof and corrosion-resistant piping solutions, further strengthening the market potential for GRP pipes.

Rapid urbanization and industrialization are generating high demand for efficient sewage and drainage systems, which GRP pipes can support with superior hydraulic properties and durability.

High initial capital investment and complex installation procedures in certain applications can deter adoption among small-scale end users, particularly in cost-sensitive markets.

Glass Reinforced Plastics (Grp) Pipes Market Segmentation

By Resin

Epoxy

Polyester

Vinyl Ester

Other Resins

By Application

Water Treatment

Sewage Piping

Oil And Gas Pipes

Chemical Processing

Pumping Systems

Marine And Offshore

Other Applications.

By End-Use Industry

Chemical Industry

Oil And Gas Industry

Construction Industry

Waste Water

Other End-Users

Key Companies Analysed

Amiblu Holding GmbH

Composite Pipes Industry

Enduro Composites Inc.

FibreX Corporation

Future Pipe Industries

BASF SE

Advanced Composites Inc.

PPG Industries Inc.

Reliance Industries Ltd.

Nippon Electric Glass Co. Ltd.

Mitsubishi Chemical Corporation

Aegion Corporation

Toray Industries Inc.

Owens Corning

Asahi Fibreglass Company

Jushi Group Co. Ltd.

Taishan Fiberglass Inc.

Johns Manville Corp.

Saint-Gobain SA

AGY Holding Corp

Binani Industries Ltd.

China Beihai Fiberglass Co. Ltd.

Chongqing Polycomp International Corp.

Fiber-Tech Industries Inc.

Fiberglass Coatings Inc.

Fibrelite Composite Structures Ltd.

Glasforms Inc.

Glasteel Inc.

Grating Pacific Inc.

Hanwha Advanced Materials Corporation

Lianyungang Zhongfu Lianzhong Composites Group Co. Ltd.

Glass Reinforced Plastics (Grp) Pipes Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Glass Reinforced Plastics (Grp) Pipes Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Glass Reinforced Plastics (Grp) Pipes market data and outlook to 2034

United States

Canada

Mexico

Europe — Glass Reinforced Plastics (Grp) Pipes market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Glass Reinforced Plastics (Grp) Pipes market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Glass Reinforced Plastics (Grp) Pipes market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Glass Reinforced Plastics (Grp) Pipes market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Glass Reinforced Plastics (Grp) Pipes value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Glass Reinforced Plastics (Grp) Pipes industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Glass Reinforced Plastics (Grp) Pipes Market Report

Global Glass Reinforced Plastics (Grp) Pipes market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Glass Reinforced Plastics (Grp) Pipes trade, costs, and supply chains

Glass Reinforced Plastics (Grp) Pipes market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Glass Reinforced Plastics (Grp) Pipes market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Glass Reinforced Plastics (Grp) Pipes market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Glass Reinforced Plastics (Grp) Pipes supply chain analysis

Glass Reinforced Plastics (Grp) Pipes trade analysis, Glass Reinforced Plastics (Grp) Pipes market price analysis, and Glass Reinforced Plastics (Grp) Pipes supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Glass Reinforced Plastics (Grp) Pipes market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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