

# Composites Market Advances with Demand for Lightweight, High-Strength Solutions Across Core Industries | DataM Intelligence

*Composites market is thriving with demand for high-strength, lightweight & sustainable materials transforming transportation, energy & infrastructure industries.*

NEW YORK, NY, UNITED STATES, July 24, 2025 /EINPresswire.com/ -- Market Overview:

[Composites Market](#) is advancing at a strong pace, propelled by the global demand for materials that offer durability, design flexibility, and low weight without compromising strength.

With key industries like aerospace, automotive, wind energy, and construction shifting toward more efficient and sustainable solutions, the market continues to evolve rapidly. Valued at US\$ 108.64 billion in 2023, the market is projected to reach US\$ 204.50 billion by 2031, expanding at a CAGR of 8.23% during the forecast period (2024–2031).



Composites are redefining how we build and innovate delivering lighter, stronger, and more sustainable solutions across the mobility, energy, and infrastructure sectors.”

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Latest Developments and Innovations :

July 2025 – Owens Corning Launches Low-Carbon Glass Fiber Technology

Owens Corning introduced a new eco-friendly glass fiber product line under the EcoStrand brand. Designed to meet

sustainability benchmarks in wind energy and automotive applications, the fibers deliver superior reinforcement properties while lowering carbon emissions in the manufacturing

process by more than 20%.

#### June 2025 – Toray Reveals Next-Gen Impact-Resistant Carbon Fiber

Toray Industries Inc. announced the commercial availability of a new carbon fiber composite engineered for enhanced shock absorption. Specifically developed for the aerospace sector, the material improves impact resistance without adding weight ideal for next-generation aircraft structures.

#### May 2025 – Solvay Launches Recyclable Thermoplastic for EV Batteries

Solvay SA unveiled a fully recyclable thermoplastic composite tailored for electric vehicle (EV) battery housings. The solution meets global fire safety standards, reduces vehicle weight, and supports closed-loop production systems.

#### April 2025 – Teijin Debuts Advanced Preform for Hydrogen Storage

### Strategic Acquisitions and Mergers :

#### June 2025 – Hexcel and Woodward Unite in Strategic Merger

Hexcel Corporation completed a strategic merger with Woodward Inc., combining their expertise to become a leading force in composite materials and integrated aerospace systems. The newly merged company plans to accelerate innovation in hybrid composite-metal components.

#### May 2025 – Gurit Acquires FiberCore Europe to Grow Infrastructure Portfolio

Gurit Holding AG acquired FiberCore Europe, a Netherlands-based manufacturer specializing in composite bridges and infrastructure components. This acquisition enhances Gurit's capacity to deliver sustainable civil engineering solutions.

#### April 2025 – SGL Carbon Forms Partnership with LG Chem

SGL Carbon SE partnered with LG Chem to co-develop composite-based battery casings for electric vehicles. The collaboration will focus on creating lightweight and thermally stable enclosures to meet rising safety demands in the EV market.

### Composites market Opportunities :

The composites market is set to benefit from several growth-driving trends:

#### Decarbonization in Transportation

As electric and hydrogen-powered vehicles become mainstream, the need for lighter and safer structural materials is surging. Composites enable improved range, fuel efficiency, and occupant safety in electric vehicles and aircraft.

#### Expansion of Renewable Energy Projects

With more governments setting clean energy targets, wind power is seeing significant

investment. Composite materials are essential in manufacturing turbine blades due to their durability, corrosion resistance, and low weight.

#### Urban Infrastructure Modernization

Cities are adopting composite materials for bridges, walkways, and structural elements thanks to their resistance to corrosion and long life spans, especially in coastal and high-humidity regions.

#### Sustainable Manufacturing Demand

Industries are under pressure to reduce environmental impact. Recyclable thermoplastics and natural fiber composites offer a way forward, enabling circularity without compromising performance.

#### Composites market Segmentation

##### By Fiber Type:

Glass Fiber Composites

Carbon Fiber Composites

Aramid Fiber Composites

Natural Fiber Composites

##### By Resin Type:

Thermoset Composites

Thermoplastic Composites

##### By Manufacturing Process:

Lay-Up

Filament Winding

Pultrusion

Resin Transfer Molding (RTM)

Compression Molding

Injection Molding

By End-Use Industry:

Aerospace & Defense

Automotive & Transportation

Construction & Infrastructure

Wind Energy

Marine

Electrical & Electronics

Consumer Goods

Industrial Equipment

Composites market Key Companies Driving Innovation

The composites market is led by companies that continue to invest in research, automation, and sustainable material development:

Owens Corning

Toray Industries Inc.

Solvay SA

Teijin Limited

SGL Carbon SE

Hexcel Corporation

Nippon Electric Glass Co. Ltd.

Huntsman International LLC

Hexion

Gurit Holding AG

These players are actively exploring ways to improve recyclability, reduce production emissions, and develop next-generation composites for high-growth markets such as aerospace, mobility, and energy.

#### Latest News – USA

##### July 2025 – U.S. Energy Department Launches Blade Recycling Pilot

The U.S. Department of Energy announced the funding of a \$50 million pilot program aimed at recycling retired wind turbine blades. Owens Corning and Solvay are participating in the project, which focuses on recovering valuable fibers and resins from composite waste.

##### June 2025 – Huntsman Develops Heat-Resistant Epoxy Resin for Aerospace

Huntsman International LLC introduced a new epoxy resin system designed for aerospace interiors that require elevated thermal performance. The resin offers durability in extreme environments and aligns with FAA standards for flame resistance.

#### Latest News – Japan

##### July 2025 – Toray Expands R&D Capabilities in Nagoya

Toray Industries is investing ¥11 billion to expand its Nagoya R&D center. The new facility will focus on AI-assisted material design and rapid prototyping for electric aviation and defense applications.

##### May 2025 – Teijin Partners with ANA on Sustainable Aircraft Cabins

Teijin Limited has joined forces with All Nippon Airways (ANA) to co-develop aircraft cabin components made from recycled carbon fiber. The project is part of ANA's plan to cut cabin material-related emissions by 30% by 2030.

#### Conclusion

As industries evolve toward sustainability and performance optimization, the composites market stands out as a transformative force. Whether it's enabling longer-lasting wind turbines, lighter vehicles, or more fuel-efficient aircraft, composite materials are proving essential in modern engineering.

Looking ahead, continued investment in bio-based resins, recyclable fiber technologies, and digitalized manufacturing will further strengthen the role of composites. Companies that lead in eco-innovation, automation, and application diversity will define the market's next phase of growth.

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