

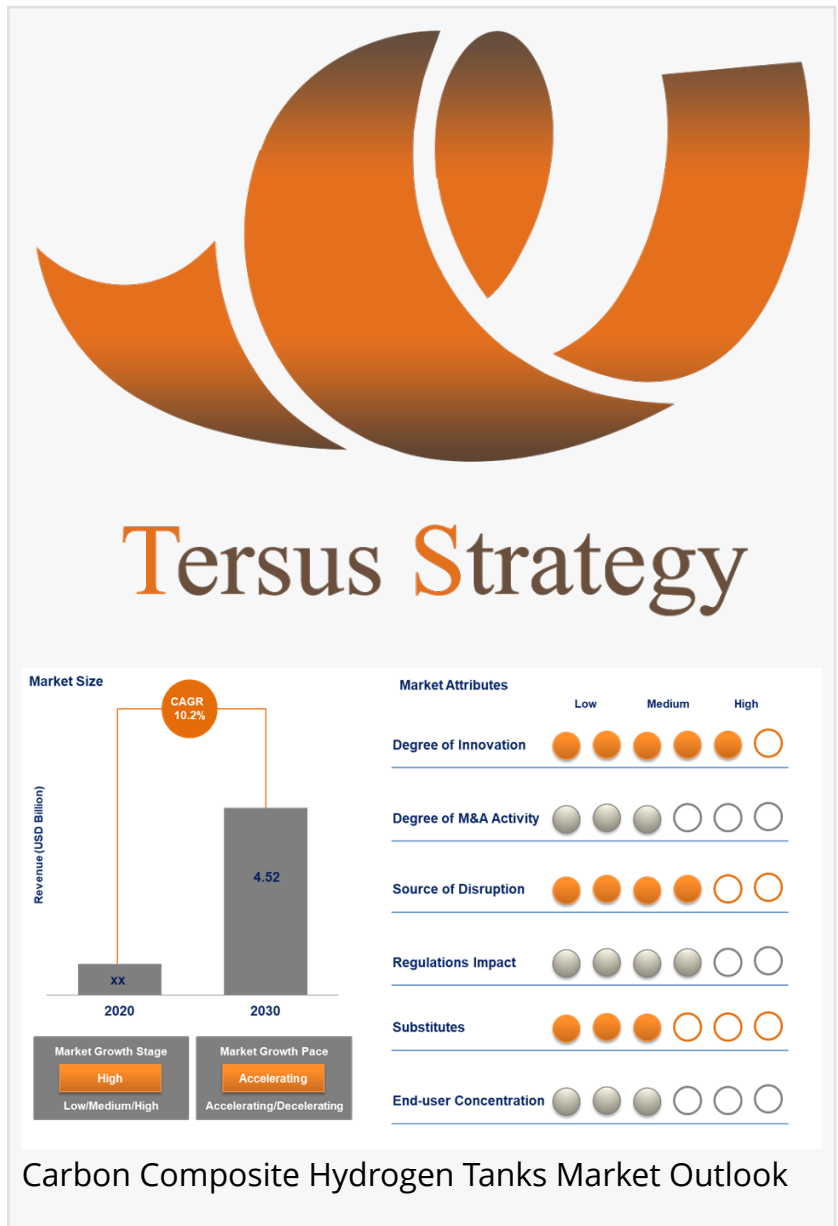
Global carbon composite hydrogen tanks market is projected to reach USD 4.52 billion by 2030, growing at a CAGR of 10.2%

The "Global Carbon Composite Hydrogen Tanks Market by Tank Type, by Process Type, by Application, and by Regions - Forecast to 2030" by Tersus Strategy

MILWAUKE, WISCONSIN, USA, September 21, 2022 / EINPresswire.com/ -- The "Global Carbon Composite Hydrogen Tanks Market by Tank Type (Type III and Type IV), by Process Type (Wet Winding and Dry Winding), by Application (Transportation, Distribution, and Hydrogen Refueling Stations), and by Regions - Forecast to 2030" report has been added to Tersus Strategy's offering.

Cryogenic composite tank development began in 1987. First, most of the effort has been devoted to liquid hydrogen tanks mainly because liquid hydrogen tanks are larger than liquid oxygen tanks, lightweight materials would provide a proportionately greater weight reduction.

For years, carbon fiber-reinforced polymer (CFRP) composites have offered lightweight storage of compressed hydrogen (H2) gas for zero-emission, fuel cell-powered vehicles via Type IV tanks comprising plastic liners wrapped with carbon fiber and epoxy resin. Though H2 has long promised a sustainable source of clean energy, until recently, progress was slow. However, growth projections for Type IV tanks are



tremendous.

CFRC have advantages in high strength-to-weight and high stiffness-to-weight ratios. The key benefits of using composites make these hydrogen storage tanks light-weight, with long-term potential, a clean and safe energy carrier, having large-scale storage and improved life cycle.

For more information about this report visit: <https://tersusstrategy.com/product/global-carbon-composite-hydrogen-tanks-market-2022-2030/>

Transportation segment, by application, is projected to be the largest market during the forecast period: High-pressure gas storage vessels represent one of the biggest and fastest-growing markets for advanced composites, particularly for filament wound carbon fibre composites. They have a use in a variety of industries, amongst which is the automotive industry and its hydrogen-powered vehicles.

The transportation segment is likely to hold undeniable dominance in the market throughout the forecast period, driven by the most sought-after FCEVs. The key fuel cell cars on the road, incessantly adding momentum to the market are Toyota Mirai, Hyundai Nexo, and Honda Clarity.

Asia-Pacific is anticipated to dominate the global market till 2030, whereas Europe is likely to experience the highest growth in the market during the forecast period: China and Japan have announced targets of 1 million and 800,000 FCV in operation, respectively, by 2030, while Korea says it will convert all commercial vehicles to hydrogen by 2025 and targets 6.2 million FCV produced by 2040. Notably, these are all countries with significant carbon fiber production.

For more information about this report visit: <https://tersusstrategy.com/product/global-carbon-composite-hydrogen-tanks-market-2022-2030/>

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