

CNG, RNG, and Hydrogen Tanks Market by Gas Type (CNG, RNG, Hydrogen), Material Type (Metal, Carbon Fiber, Glass Fiber), Tank Type (Type 1, Type 2, Type 3, Type 4), Application (Fuel, Transportation), and Region - Global Forecasts to 2030

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Abstracts

The size of the global market for CNG, RNG, and hydrogen tanks is anticipated to develop significantly, rising from USD 2.5 billion in 2022 to USD 5.6 billion by 2030, with a predicted CAGR of 10.7% from 2023 to 2030. Tanks made of CNG, RNG, and hydrogen provide a number of benefits, such as longevity, affordability, and environmental friendliness. These tanks are used as transportation tanks and fuel tanks. Based on the material used to make tanks, the market is divided into metal, carbon fiber and glass fiber segments.

“Hydrogen gas type is the fastest-growing segment in terms of both value and volume.”

Hydrogen gas is anticipated to experience the highest compound annual growth rate (CAGR) in terms of value between 2023 and 2030. Compared to other flammable fuels, particularly natural gas, hydrogen has the highest density per kilogram since it is the lightest and most prevalent element in the universe. However, storing and moving hydrogen present difficulties because of its high mass-energy density and light weight. Both chemical and physical approaches of hydrogen storage are possible. The key responses said that Type 3 and Type 4 tanks are the best options for fuel and transportation tank applications since Type 1 or Type 2 tanks run the risk of impregnating with metal particulates. The gaseous hydrogen is stored in high-pressure tanks of 350 bars to 700 bars which is the most preferred and widely commercialized method for its storage.

“Metal is the largest material type segment in terms volume.”

The manufacturing of CNG, RNG, and hydrogen tanks involves the use of different metals such as steel, aluminum, and metal alloys. Steel is commonly employed in Type 1, Type 2, and Type 3 cylinders. While the use of metal in these tanks increases their weight, it also offers sufficient protection to the cylinders. The durability of metal and metal-lined cylinders depends on the rate of fatigue crack growth throughout their lifecycle.

“Type 4 tanks are expected to project the maximum CAGR.”

The highest compound annual growth rate (CAGR) among all tank types is anticipated for Type 4 CNG, RNG and hydrogen tanks between 2023 and 2030. Type 4 tanks have increased storage capacities, improved safety measures, and less weight thanks to the use of innovative composite materials in their construction. The adoption of Type 4 tanks is being fueled by the rising desire for greener, more sustainable transportation options, which is also a factor in the market's maximum CAGR prediction for these tanks.

“Fuel tank application dominated the CNG, RNG, and hydrogen tanks market in terms of value and volume both.”

For fuel tank applications, CNG, RNG, and hydrogen are widely used as substitute fuels for cars that traditionally run on gasoline and diesel. The automotive industry's rising demand for these gasoline tanks can be ascribed to a number of factors, including their remarkable durability, cost effectiveness, and low CO₂ emissions. automobiles fueled by natural gas tanks are less expensive than diesel-powered automobiles. Many different types of vehicles, including light-duty, medium-duty, and heavy-duty vehicles, use these gasoline tanks.

“Asia Pacific is the leading market for CNG, RNG, and hydrogen tanks.”

In terms of both value and volume, Asia Pacific is the leading market for CNG, RNG, and hydrogen tanks. The rising use of these tanks in different applications, particularly in transportation and fuel tanks, is the main driver of market expansion in the Asia Pacific region. This demand is significantly fueled by the impressive industrial development of nations like China, India, Pakistan, and Thailand. China has emerged as the top consumer of CNG, RNG, and hydrogen tanks in the automotive industry, and it is anticipated that it will continue to solidify its position. The governments of China and

India both have a high priority on lowering air pollution, which has prompted them to encourage the use of natural gas vehicles and boosted the market growth for these tanks in those nations. Further boosting the expansion of the CNG, RNG, and hydrogen tanks market in the region is the active efforts being made by Asia Pacific governments to promote the use of alternative fuels and lower emissions in urban areas.

Breakdown of Profiles of Primary Interviews:

By Company Type- Tier 1- 40%, Tier 2- 33%, and Tier 3- 27%

By Designation- C Level- 50%, Director Level- 30%, and Others- 20%

By Region- North America- 15%, Europe- 50%, Asia Pacific (APAC) - 20%, Latin America-10%, Middle East & Africa (MEA)-5%,

The report provides a comprehensive analysis of company profiles listed below:

Worthington Industries, Inc. (US),

Luxfer Group (UK),

Hexagon Composites ASA (Norway),

Quantum Fuel Systems LLC. (US),

Everest Kanto Cylinders Ltd. (India),

Praxair Technologies Inc. (US),

Avanco Group (Germany),

Xinyi Beijing Tianhai Industry Co. Ltd. (China),

Lianyungang Zhongfu Lianzhong Composites Group Co. Ltd. (China),

Faber Industrie SpA (Italy)

Research Coverage

This report covers the global CNG, RNG, and hydrogen tanks market and forecasts the market size until 2030. It includes the following market segmentation – gas type (CNG, RNG, hydrogen), material (metal, carbon fiber, glass fiber), tank type (type 1, type 2, type 3, type 4), application (fuel tank, transportation tank) and Region (Europe, North America, APAC, Latin America, and MEA). Porter's Five Forces Analysis, along with the drivers, restraints, opportunities, and challenges, have been discussed in the report. It also provides company profiles and competitive strategies adopted by the major players in the global CNG, RNG, and hydrogen tanks market.

Reasons to buy the report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall CNG, RNG, and hydrogen tanks market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing use of natural gas in automotive industry), restraints (Limited availability of hydrogen and CNG refueling infrastructure in developed economies), opportunities (Emergence of lightweight composite material based CNG cylinders), and challenges (Impact of fluctuating oil prices on the CNG, RNG, and hydrogen tanks market) influencing the growth of the CNG, RNG, and hydrogen tanks market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the CNG, RNG, and hydrogen tanks market

Market Development: Comprehensive information about lucrative markets – the report analyses the CNG, RNG, and hydrogen tanks market across varied regions

Market Diversification: Exhaustive information about new products & services,

untapped geographies, recent developments, and investments in the CNG, RNG, and hydrogen tanks market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like include Worthington Industries, Inc. (US), Luxfer Group (UK), Hexagon Composites ASA (Norway), Quantum Fuel Systems LLC. (US), Everest Kanto Cylinders Ltd. (India), Praxair Technologies Inc. (US), Avanco Group (Germany), among others in the CNG, RNG, and hydrogen tanks market

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TABLE 275 SAHUWALA CYLINDERS LTD.: COMPANY OVERVIEW

12.2.7 EURO INDIA CYLINDERS LTD.
TABLE 276 EURO INDIA CYLINDERS LTD.: COMPANY OVERVIEW

12.2.8 CEVOTEC GMBH
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12.2.9 NPROXX
TABLE 278 NPROXX: COMPANY OVERVIEW

12.2.10 STEELHEAD COMPOSITES, INC.
TABLE 279 STEELHEAD COMPOSITES, INC.: COMPANY OVERVIEW

12.2.11 JIANGSU QIULIN SPECIAL ENERGY EQUIPMENT JOINT STOCK LIMITED COMPANY

TABLE 280 JIANGSU QIULIN SPECIAL ENERGY EQUIPMENT JOINT STOCK LIMITED COMPANY: COMPANY OVERVIEW

*Details on Business overview, Products offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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