

# Global Type IV Hydrogen Storage Tank Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Type IV Hydrogen Storage Tank market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

A Hydrogen tank (other names- cartridge or canister) is used for hydrogen storage. The first type IV hydrogen tanks for compressed hydrogen at 700 bars (70 MPa; 10,000 psi) were demonstrated in 2001, the first fuel cell vehicles on the road with type IV tanks are the Toyota FCHV, Mercedes-Benz F-Cell and the GM HydroGen4.

Type 4 tanks offer significant advantages over other pressure vessels. The carbon fibre-reinforced structure creates a superior strength/stiffness to weight ratio, resulting in a potential 450kg weight reduction of gas containment systems in buses and trucks. This leads to significantly improved fuel economy, underlining the economic argument for hydrogen fueling. It also expands the range of vehicles and situations in which these vessels can be used. Composite tanks such as carbon fiber with a polymer liner (thermoplastic)

The Global Info Research report includes an overview of the development of the Type IV Hydrogen Storage Tank industry chain, the market status of Hydrogen Storage (Hydrogen Storage Infrastructure, Hydrogen Transportation for Re-Fueling), Hydrogen Transport (Hydrogen Storage Infrastructure, Hydrogen Transportation for Re-Fueling), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Type IV Hydrogen Storage Tank.

Regionally, the report analyzes the Type IV Hydrogen Storage Tank markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Type IV Hydrogen Storage Tank market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Type IV Hydrogen Storage Tank market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Type IV Hydrogen Storage Tank industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Hydrogen Storage Infrastructure, Hydrogen Transportation for Re-Fueling).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Type IV Hydrogen Storage Tank market.

**Regional Analysis:** The report involves examining the Type IV Hydrogen Storage Tank market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Type IV Hydrogen Storage Tank market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Type IV Hydrogen Storage Tank:

**Company Analysis:** Report covers individual Type IV Hydrogen Storage Tank manufacturers, suppliers, and other relevant industry players. This analysis includes

studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Type IV Hydrogen Storage Tank. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Hydrogen Storage, Hydrogen Transport).

**Technology Analysis:** Report covers specific technologies relevant to Type IV Hydrogen Storage Tank. It assesses the current state, advancements, and potential future developments in Type IV Hydrogen Storage Tank areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Type IV Hydrogen Storage Tank market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Type IV Hydrogen Storage Tank market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Hydrogen Storage Infrastructure

Hydrogen Transportation for Re-Fueling

Hydrogen Powered Rail Vehicles

Hydrogen Powered Cars

Other Vehicles (Hydrogen Powered Buses, Trucks)

## Market segment by Application

Hydrogen Storage

Hydrogen Transport

## Major players covered

Hexagon

NPROXX

Mahytec

Steelhead

Quantum

Dynetek

DSM

Tian Hai Industry

Shenhua Group

Sinoma Technology

Northern rare earth

Rising Nonferrous

Cohen Shares

## Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Type IV Hydrogen Storage Tank product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Type IV Hydrogen Storage Tank, with price, sales, revenue and global market share of Type IV Hydrogen Storage Tank from 2019 to 2024.

Chapter 3, the Type IV Hydrogen Storage Tank competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Type IV Hydrogen Storage Tank breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Type IV Hydrogen Storage Tank market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Type IV Hydrogen Storage Tank.

Chapter 14 and 15, to describe Type IV Hydrogen Storage Tank sales channel, distributors, customers, research findings and conclusion.

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