

Global Hydrogen Energy Passenger Bus Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Hydrogen Energy Passenger Bus market size was valued at US\$ 752 million in 2025 and is forecast to a readjusted size of US\$ 1307 million by 2032 with a CAGR of 8.0% during review period.

In 2025, the global Hydrogen Energy Passenger Bus production approximately 2,856 units, mainly concentrated in public transit demonstration projects and urban bus replacement programs in China, Europe, South Korea, and Japan. The typical market price of hydrogen-fueled passenger buses was around 235,000 USD per unit, while the estimated manufacturing cost was about 196,000 USD per unit, resulting in a gross margin of approximately 16.6%. Global production capacity was estimated at around 6,480 units. A Hydrogen Energy Passenger Bus is a medium- or large-sized passenger vehicle powered by hydrogen, typically using a fuel cell system as its main power source. Hydrogen stored onboard reacts with oxygen from the air in the fuel cell stack to generate electricity, which drives the electric motor, with water as the main emission. Compared with conventional diesel buses, hydrogen energy passenger buses offer zero tailpipe emissions, lower noise, longer driving range, and shorter refueling time. They are suitable for urban passenger transport, intercity routes, tourism transport, campus or park shuttles, and fixed-route operations, especially in scenarios requiring long range, high utilization, and centralized refueling.

Hydrogen Energy Passenger Bus will develop toward longer range, lower hydrogen consumption, reduced fuel cell system cost, and scenario-based fleet operation. As emission reduction requirements for public and commercial transport become stricter, hydrogen buses will have advantages in long-distance routes, cold-region operation, high-frequency services, and centralized fleet refueling. Since 2025, hydrogen bus

demonstrations and procurement have continued in regions such as Europe, Asia, and India, but market expansion is still constrained by hydrogen cost, refueling infrastructure, vehicle purchase price, and fuel cell durability. Future development will focus on improving fuel cell power density, hydrogen storage safety, vehicle energy efficiency, and maintenance convenience, while building integrated operating models that combine vehicles, hydrogen refueling stations, and green hydrogen supply through cooperation among bus operators, energy companies, and local governments.

This report is a detailed and comprehensive analysis for global Hydrogen Energy Passenger Bus market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Hydrogen Energy Passenger Bus market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydrogen Energy Passenger Bus market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydrogen Energy Passenger Bus market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Hydrogen Energy Passenger Bus market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hydrogen Energy Passenger Bus

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hydrogen Energy Passenger Bus market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Solaris Bus & Coach, CaetanoBus, Wrightbus, Van Hool, Alexander Dennis Limited (ADL), IVECO BUS, MAN Truck & Bus, Daimler Buses, Toyota Motor Corporation, Hyundai Motor Company, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Hydrogen Energy Passenger Bus market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Hydrogen Fuel Cell Capacity: %oO%80 kWh

Hydrogen Fuel Cell Capacity: 80?160 kWh

Hydrogen Fuel Cell Capacity: >160 kWh

Market segment by Layer

Single Layer

Two Layer

Market segment by Application

Public Transport

Intercity Buses

Other

Major players covered

Solaris Bus & Coach

CaetanoBus

Wrightbus

Van Hool

Alexander Dennis Limited (ADL)

IVECO BUS

MAN Truck & Bus

Daimler Buses

Toyota Motor Corporation

Hyundai Motor Company

Yutong Bus

BYD Auto

Foton Motor

King Long (Xiamen King Long)

Zhongtong Bus

?koda Group

New Flyer Industries

Gillig

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 Hydrogen Energy Passenger Bus product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrogen Energy Passenger Bus, with price, sales quantity, revenue, and global market share of Hydrogen Energy Passenger Bus from 2021 to 2026.

Chapter 3, the Hydrogen Energy Passenger Bus competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrogen Energy Passenger Bus breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Hydrogen Energy Passenger Bus market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Hydrogen Energy Passenger Bus.

Chapter 14 and 15, to describe Hydrogen Energy Passenger Bus sales channel, distributors, customers, research findings and conclusion.

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