

Global Hydrogen-Capable Gas Turbines 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-Capable Gas Turbines market size was valued at US\$ 6411 million in 2025 and is forecast to a readjusted size of US\$ 15240 million by 2032 with a CAGR of 13.3% during review period.

In 2024, global hydrogen-capable gas turbines production reached 10,705.7 MW, with an average global market price of around US\$521 per kW. Hydrogen-capable gas turbines are gas turbines capable of generating electricity or driving power using fuel containing hydrogen (ranging from a low percentage to 100%). Based on the Brayton cycle, they feature fast flame speeds, high combustion temperatures, and a short quenching distance. They are used in large-scale power peaking, natural gas power plants, and industrial combined heat and power. Upstream components include hydrogen production (electrolysis, blue/grey hydrogen), transmission, distribution, and storage infrastructure, as well as key hardware such as burners and high-temperature alloy/gas control systems. Downstream components include power generation services (grid-connected power plants and independent power plants), alternative fuels for industrial users, and system solutions integrated with carbon capture or the hydrogen energy supply chain.

The global hydrogen gas turbine market is in its early stages of rapid development, driven primarily by the global energy transition and strong government policies. To achieve carbon neutrality, governments around the world are enacting policies encouraging the development of clean energy, creating a broad market for hydrogen gas turbines. In terms of regional development, the European market is the most mature, with the most demonstration projects and the most ambitious development

targets. The North American market is experiencing rapid growth driven by the policies of the Inflation Reduction Act. The Asia-Pacific region, represented by Japan, South Korea, and China, is catching up rapidly. Future development will focus on technological innovation, application model innovation, and coordinated development of the industrial chain, accelerating the development of a complete industrial ecosystem encompassing hydrogen production, storage, and transportation.

This report is a detailed and comprehensive analysis for global Hydrogen-Capable Gas Turbines 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-Capable Gas Turbines market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/kW), 2021-2032

Global Hydrogen-Capable Gas Turbines market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/kW), 2021-2032

Global Hydrogen-Capable Gas Turbines market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/kW), 2021-2032

Global Hydrogen-Capable Gas Turbines market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/kW), 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-Capable Gas Turbines
- 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-Capable Gas Turbines 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 GE Vernova, Siemens Energy, MHPS, Dongfang Electric Corporation, Solar Turbines, Baker Hughes, Ansaldo, Kawasaki, BHEL, AECC, etc.

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

Market Segmentation

Hydrogen-Capable Gas Turbines 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

Heavy Duty Gas Turbine

Aeroderivative Gas Turbine

Light Duty Gas Turbine

Market segment by Hydrogen Blending Ratio

Low Blending Type

High Blending Type

100% Pure Hydrogen

Market segment by Application

Power Generation

Oil & Gas

Others

Major players covered

GE Vernova

Siemens Energy

MHPS

Dongfang Electric Corporation

Solar Turbines

Baker Hughes

Ansaldo

Kawasaki

BHEL

AECC

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-Capable Gas Turbines product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrogen-Capable Gas Turbines, with price, sales quantity, revenue, and global market share of Hydrogen-Capable Gas Turbines from 2021 to 2026.

Chapter 3, the Hydrogen-Capable Gas Turbines competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrogen-Capable Gas Turbines 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-Capable Gas Turbines 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-Capable Gas Turbines.

Chapter 14 and 15, to describe Hydrogen-Capable Gas Turbines sales channel, distributors, customers, research findings and conclusion.

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