

Global Hydrogenerator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrogenerator market size is expected to reach \$ 4053 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

In 2025, global hydrogenerator production reached approximately 1281 units, the average price is 2200 k usd/unit. Hydrogenerator is a rotating motor which converts mechanical energy of water flow into electric energy. It is the core equipment of hydraulic power station. Its basic working principle is that water flow impinges or drives hydraulic turbine to rotate. The main shaft of hydraulic turbine drives the rotor of generator directly or through transmission device. The excitation winding on rotor is connected with DC to generate rotating magnetic field. The stator winding is cut to induce AC electromotive force, and then output electric energy. It has the characteristics of rapid start, good peak shaving performance and long service life. It is the key power equipment to realize the efficient utilization of hydropower, a clean renewable energy.

Market Concentration and Key Players:

Internationally, the market concentration of hydrogenerators is relatively high, mainly concentrated in developed countries in Europe and America. For example, Watt&Sea and WEG and other large manufacturers; from the domestic point of view, hydrogenerators still have a lot of room for development.

Manufacturing Processes and Market Trends:

The core of hydrogenerator manufacturing technology lies in the machining and integral assembly of large precision parts. The key starts from the manufacture of core parts. The rotating shaft and rotor center body need to be forged by large forgings and

precisely machined by heavy machine tools. After the magnetic yoke punching sheets are stacked, they are heated and sleeved into the rotating shaft and tightened by torque wrenches. After the stator base is divided into segments, it is welded and machined on site. The stator core is punched out by cold-rolled silicon steel sheets and laminated. The stator winding coils are wound, formed and laminated. After insulation treatment, embed the core slot and complete the offline connection. The overall assembly shall be carried out in the installation room. Adjust the axis through turning and make the rotor fall into the stator cavity smoothly. Finally, complete the complete set of electrical test and type test in the factory or construction site after bearing installation, thrust load commissioning and ventilation cooling system integration to ensure the stability and reliability of the unit.

The market trend closely follows the global energy transformation and hydropower development. At present, large-scale hydropower development focuses on high-head and large-capacity units, continuously improving the efficiency and reliability requirements of units. Digitalization and intelligence have become clear directions. Predictive maintenance and performance optimization of units can be realized by installing condition monitoring sensors and constructing digital twin models. Capacity expansion and modernization of a large number of stock units are important markets. By replacing runners, Stator winding and upgrade control system can effectively improve output and operation flexibility, progress in materials and cooling technology to promote the development of units to larger unit capacity, while enterprises actively participate in overseas hydropower projects, from equipment supply to provide overall solutions to expand.

This report studies the global Hydrogenerator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogenerator and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydrogenerator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrogenerator total production and demand, 2021-2032, (K Units)

Global Hydrogenerator total production value, 2021-2032, (USD Million)

Global Hydrogenerator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Hydrogenerator consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Hydrogenerator domestic production, consumption, key domestic manufacturers and share

Global Hydrogenerator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Hydrogenerator production by Structure, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Hydrogenerator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Hydrogenerator market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Watt&Sea, WEG, HM Hydro, Ingeteam, Litostroj Power Group, Kirloskar Electric, Andritz, Voith, GE Vernova, Toshiba, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydrogenerator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Structure, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Hydrogenerator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogenerator Market, Segmentation by Structure:

Synchronous Hydrogenerators

Asynchronous Hydrogenerators

Global Hydrogenerator Market, Segmentation by Function:

Mixed-flow

Axial-flow

Others

Global Hydrogenerator Market, Segmentation by Shape:

Vertical

Horizontal

Global Hydrogenerator Market, Segmentation by Application:

Oil and Gas Industry

Electricity Industry

Others

Companies Profiled:

Watt&Sea

WEG

HM Hydro

Ingeteam

Litostroj Power Group

Kirloskar Electric

Andritz

Voith

GE Vernova

Toshiba

Dongfang Electric

BHEL

Hitachi Mitsubishi

Harbin Electric

IMPSA

Zhefu

Power Machines

CME

Key Questions Answered:

1. How big is the global Hydrogenerator market?
2. What is the demand of the global Hydrogenerator market?
3. What is the year over year growth of the global Hydrogenerator market?
4. What is the production and production value of the global Hydrogenerator market?
5. Who are the key producers in the global Hydrogenerator market?
6. What are the growth factors driving the market demand?

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