

# **Hydraulic Turbines Market by Product (Reaction and Impulse), Rating (Small (Less Than 1MW), Medium (1MW to 10MW), and Large (10MW and Above)), and End-User (Industrial, Commercial, and Residential): Global Opportunity Analysis and Industry Forecast, 2020–2027**

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## **Abstracts**

The global hydraulic turbines Market was valued at \$0.9 billion in 2019, and is projected to reach \$1.5 billion by 2027, growing at a CAGR of 5.7% from 2020 to 2027.

Hydraulic turbine converts energy of water into mechanical energy and the mechanical energy is passed through a hydroelectric generator to generate electrical energy. Hydraulic turbine consists of large number of blades, which are fixed on a shaft. They are mostly used for production of clean and sustainable energy for industrial and commercial sectors. However, owing to location constraint, installation of hydraulic turbine is a big challenge.

Increase in demand for renewable power sources is expected to drive the market growth. Governments across the globe are promoting sustainable energy sources, which can replace conventional fossil fuel sources. Furthermore, rise in prominence of various technologies such as low head turbines and small hydro plants is expected to propel the market demand. Moreover, replacement of old coal and fossil fuel power plants with renewable power sources is one of the major factors that boosts the market growth. European Union and the U.S. Department of Energy are largely promoting renewable energy sources, including hydro power, which positively impacts the market growth. In addition, growth in interest of industry players toward hydropower is expected to secure robust investments for the market growth during the forecast period. However,

ideal location of hydraulic turbine installation is a big challenge for industry players. For instance, location of hydropower plants can be far from cities, which cannot utilize hydropower. Moreover, during heavy flood, failure of dams or water reservoirs can lead to serious damage to nearby towns or places. Such factors hamper growth of the market. Nonetheless, various government incentive schemes and subsidies are expected to create lucrative opportunities for the market players.

The global hydraulic turbine market is segmented on the basis of product, rating, and end-user. On the basis of product, it is divided into reaction and impulse. By rating, it is categorized into small (less than 1MW), medium (1MW to 10MW), and large (10MW and above). By end-user, the market is classified into industrial, commercial, and residential. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Major players have adopted business expansion, merger, and acquisition to sustain the intense market competition. Some of the key players profiled in the report include General Electric Company, Siemens AG, Andritz AG, Toshiba Hydroelectric Power, Kirloskar Brothers Ltd, and Litostroj Power Group.

#### COVID-19 scenario analysis

The hydraulic turbine market witnessed mixed impact of COVID-19 pandemic in countries such as China, Brazil, and India.

In China, hydropower witnessed reduction in demand, however, there has also been a reintroduction of hydropower development.

Brazil hydraulic turbine market was affected, owing to cancellation of large number of projects

Moreover, owing to social distancing and lockdown norms, industry players are forced to follow strict restrictions, which affected operations of hydraulic turbines. For instance, in 2020, Statkraft halted construction of its two projects of 100 MW and 52 MW in India and Chile,

respectively.

Supply chain disruption and travel restriction of personnel largely impacted ongoing projects. In addition, restrictions on cross border transport delayed material replenishment.

Shift in trend toward remote working is considered as a vital solution to improve the market conditions. Various automation companies such as ABB and Siemens are accelerating remote connectivity to ensure access to field operators and service engineers who cannot be on-site at this time.

These companies are providing control room livestreams, process data, operational insights, and plant key performance indicators to users sheltering at home. Such remote monitoring of critical assets, augmented reality maintenance support, and online tools for training and spare parts stocking are expected to provide new market opportunities post COVID-19.

### Key benefits for stakeholders

The global hydraulic turbine market analysis covers in-depth information of major industry participants.

Porter's five forces analysis helps analyze the potential of

buyers & suppliers and the competitive scenario of the industry for strategy building.

Major countries have been mapped according to their individual revenue contribution to the regional market.

The report provides in-depth analysis of the global hydraulic turbine market forecast for the period 2020–2027.

The report outlines the current global hydraulic turbine market trends and future estimations of the market from 2019 to 2027 to understand the prevailing opportunities and potential investment pockets.

The key drivers, restraints, & market opportunity and their detailed impact analysis are explained in the study.

## Key market segments

By Product Type

Reaction

Impulse

By Rating

Small (Less than 1MW)

Medium (1MW to 10MW)

Large (10MW and above)

End-User

Industrial

Commercial

Residential

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

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