

Hydropower Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global hydropower market size reached 1.5 TW in 2022. Looking forward, IMARC Group expects the market to reach 1.6 TW by 2028, exhibiting a growth rate (CAGR) of 1.5% during 2023-2028.

Hydropower refers to the electrical energy generated by converting kinetic energy from water bodies, such as rivers, waterfalls and oceans. Various turbine-based power stations are positioned on the riverbed through which electricity is produced using a generator. Hydropower operates through dams with seasonal storage or through pumped-storage reversible plants that can be used for both the generation and transmission of energy. Run-of-river, storage, pumped-storage, and offshore hydropower are the most commonly used hydropower technologies. These technologies are environment-friendly and emit minimal greenhouse gas (GHG) during the generation of power.

Hydropower Market Trends:

The growing demand for sustainable sources of energy, along with rapid industrialization across the globe, is one of the key factors driving the growth of the market. In comparison to the energy produced from the traditional coal and petroleum-based power plants, hydropower is more reliable, cleaner and cost-effective. Furthermore, widespread adoption of small hydropower (SHP) plants is also providing a boost to the market growth as these plants are highly flexible and adaptable to dynamic geographical and infrastructural circumstances, especially in areas with poor grid connectivity. Various technological advancements, such as integration with the Industrial Internet of Things (IIoT) solutions, are also acting as another growth-inducing factor. The integration facilitates the utilization of smart sensors that can provide continuous and high-rate stream data to enhance the operational efficiency by

continuously monitoring the levels of energy generated by the plant. Other factors, including the rising global population impacting the energy demands and the implementation of favorable government policies promoting the usage of renewable sources of energy, are projected to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global hydropower market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on size and application.

Breakup by Size:

- Large Hydropower (Greater Than 100 MW)
- Small Hydropower (Smaller Than 10 MW)
- Others

Breakup by Application:

- Industrial
- Residential
- Commercial

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom

Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Ltd., American Hydro Corporation (Wartsila Oyj Abp), Andritz AG, China Yangtze Power Co. Ltd. (China Three Gorges Corporation), Companhia Energética de Minas Gerais, Electricité de France S.A., General Electric Company, Iberdrola S.A., RusHydro, Siemens Energy AG, Tata Power Company Limited and Voith GmbH & Co. KGaA.

Key Questions Answered in This Report

1. What was the size of the global hydropower market in 2022?
2. What is the expected growth rate of the global hydropower market during 2023-2028?
3. What are the key factors driving the global hydropower market?
4. What has been the impact of COVID-19 on the global hydropower market?
5. What is the breakup of the global hydropower market based on size?
6. What is the breakup of the global hydropower market based on the application?
7. What are the key regions in the global hydropower market?
8. Who are the key players/companies in the global hydropower market?

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