

# **Hydropower Market Size, Share & Trends Analysis Report By Component (Civil Construction, Electromechanical Equipment, Power Infrastructure), By Capacity (Mini, Small, Micro & Pico, Large & Medium), By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

This report can be delivered to the clients within 8 Business Days

### **Hydropower Market Growth & Trends**

The global hydropower market size is anticipated to reach USD 280.20 billion by 2030, according to a new report by Grand View Research, Inc. The market is projected to grow at a CAGR of 1.5% from 2025 to 2030. Cost advantages of hydropower based electricity generation and the substitution of fossil fuel based power production in an attempt to reduce carbon emission is expected to drive market demand. According to the estimates of the International Energy Agency (IEA), the deployment of sustainable hydropower as proposed by this organization will help avoid approximately one billion tones of annual carbon dioxide emission by 2050.

Rapid rise in demand for renewable energy especially in China, India and Brazil and the construction of key hydropower projects including the installation of 32 turbines and the completion of the third phase of the Three Gorges Dam in China in 2012, will fuel the future growth of this market. Supportive regulatory framework for sustainable energy in the U.S. and European Union is also expected to have a positive impact on market demand. Implementation of favorable government regulations such as the Hydropower Regulatory Efficiency Act and Small Conduit Hydropower Development and Rural Jobs

in the U.S. and growing number of funding programs pertaining to the renewable energy sector in developed countries such as Italy and Canada are some of the factors which are expected to present future growth opportunities.

### Hydropower Market Report Highlights

Based on components, the civil construction segment dominated the hydropower market and accounted for a revenue share of 33.24% in 2024

The small capacity hydropower segment accounted for the largest revenue share in 2024.

The micro & pico segment is anticipated to witness the fastest CAGR during the forecast period

The North America hydropower market is expected to experience growth during the forecast period.

Asia Pacific dominated the hydropower market and accounted for revenue share of 37.38% in 2024.

### Companies Mentioned

Siemens  
Stakraft Sweden  
ANDRITZ  
China Three Gorges Corporation  
Voith GmbH & Co. KGaA  
ALFA LAVAL  
ABB  
ENGIE  
Tata Power  
Norsk Hydro ASA

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