

# **Global Hydro Generator Market Size Study, by Size (Large, Small, Micro), by Type (On-Site Generation, Portable), by Capacity (Up to 100 W, 101 to 250 W, 251 to 500 W, 501 to 750 W, 751 W and above), by End User Industry (Oil & Gas, Energy & Power, Others) and Regional Forecasts 2022-2032**

<https://marketpublishers.com/r/G1B4CCFF6C97EN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G1B4CCFF6C97EN

## **Abstracts**

The Global Hydro Generator Market is valued approximately at USD 230.90 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.0% over the forecast period 2024-2032. The Hydro Generator Market is experiencing significant growth driven by the increasing global emphasis on clean and sustainable energy sources. As the demand for electricity continues to rise, hydro generators play a crucial role in meeting this need, particularly through large-scale hydro projects in the Asia-Pacific region, where abundant water resources and governmental support are prevalent. These projects provide stable baseload power, crucial for addressing grid stability in the face of intermittent renewable sources like solar and wind. Technological advancements in turbine design further enhance the efficiency and competitiveness of hydro generators in the evolving energy market.

The Energy & Power sector stands out as the dominant end-user industry, utilizing hydro generators to achieve renewable energy targets and reduce carbon footprints. While small and micro hydro generators cater to specific niche applications, the market is predominantly characterized by large-scale, on-site generation installations. Despite challenges such as environmental concerns, high initial capital costs, and site availability, the global Hydro Generator Market continues to expand as governments worldwide prioritize sustainable energy solutions. As a cornerstone in the renewable energy transition, hydro generators play a crucial role in reshaping the energy mix and

fostering a more sustainable and resilient global power infrastructure.

The market is propelled by the increasing global focus on clean and renewable energy sources, growing energy demand and grid stability needs, technological advancements and efficiency improvements, global water scarcity issues, and supportive government policies and incentives. However, it faces challenges such as environmental and regulatory hurdles, high initial capital costs, limited suitable site availability, climate variability, and competition from other renewable energy sources. Noteworthy trends include the growing emphasis on renewable energy, technological advancements, increasing development of small-scale hydroelectric projects, integration of digitalization and automation, and the rising focus on pumped storage hydroelectricity.

The key regions considered for the Global Hydro Generator Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia Pacific holds a dominant position in the global hydro generator market, benefiting from abundant water resources, rapid industrialization, urbanization, and proactive governmental support for renewable energy adoption. Whereas, the market in Europe is anticipated to grow at the fastest growth rate during forecast period 2024-2032.

Major market players included in this report are:

General Electric (GE)

Voith GmbH & Co. KGaA

Hitachi Mitsubishi Hydro Corporation

Toshiba America Energy Systems Corporation

Andritz AG

Nidec Industrial Solutions

OJSC Power Machines

WEG SA

Global Hydro Energy GmbH

Siemens AG

The detailed segments and sub-segment of the market are explained below:

By Size:

Large

Small

Micro

By Type:

On-Site Generation

Portable

By Capacity:

Up to 100 W

101 to 250 W

251 to 500 W

501 to 750 W

751 W and above

By End User Industry:

Oil & Gas

Energy & Power

Others

Common content for Report Description:

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL HYDRO GENERATOR MARKET EXECUTIVE SUMMARY**

- 1.1. Global Hydro Generator Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Size
  - 1.3.2. By Type
  - 1.3.3. By Capacity
  - 1.3.4. By End User Industry
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL HYDRO GENERATOR MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory Frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL HYDRO GENERATOR MARKET DYNAMICS**

*Global Hydro Generator Market Size Study, by Size (Large, Small, Micro), by Type (On-Site Generation, Portable...*

### 3.1. Market Drivers

- 3.1.1. Increasing Focus on Clean and Renewable Energy
- 3.1.2. Growing Energy Demand and Grid Stability Needs
- 3.1.3. Technological Advancements and Efficiency Improvements

### 3.2. Market Challenges

- 3.2.1. Environmental and Regulatory Hurdles
- 3.2.2. High Initial Capital Costs
- 3.2.3. Limited Suitable Site Availability

### 3.3. Market Opportunities

- 3.3.1. High Potential of UAVs with Adjuvants in Aerial Applications
- 3.3.2. Expansion of Agriculture Industry in Emerging Markets
- 3.3.3. Increasing Demand for Higher Crop Yields

## **CHAPTER 4. GLOBAL HYDRO GENERATOR MARKET INDUSTRY ANALYSIS**

### 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

### 4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

### 4.3. Top Investment Opportunity

### 4.4. Top Winning Strategies

### 4.5. Disruptive Trends

### 4.6. Industry Expert Perspective

### 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL HYDRO GENERATOR MARKET SIZE & FORECASTS BY SIZE 2022-2032**



5.1. Segment Dashboard

5.2. Global Hydro Generator Market: Size Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Large

5.2.2. Small

5.2.3. Micro

## **CHAPTER 6. GLOBAL HYDRO GENERATOR MARKET SIZE & FORECASTS BY TYPE 2022-2032**

6.1. Segment Dashboard

6.2. Global Hydro Generator Market: Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. On-Site Generation

6.2.2. Portable

## **CHAPTER 7. GLOBAL HYDRO GENERATOR MARKET SIZE & FORECASTS BY CAPACITY 2022-2032**

7.1. Segment Dashboard

7.2. Global Hydro Generator Market: Capacity Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Up to 100 W

7.2.2. 101 to 250 W

7.2.3. 251 to 500 W

7.2.4. 501 to 750 W

7.2.5. 751 W and above

## **CHAPTER 8. GLOBAL HYDRO GENERATOR MARKET SIZE & FORECASTS BY END USER INDUSTRY 2022-2032**

8.1. Segment Dashboard

8.2. Global Hydro Generator Market: End User Industry Revenue Trend Analysis, 2022 & 2032 (USD Billion)

8.2.1. Oil & Gas

8.2.2. Energy & Power

8.2.3. Others

## **CHAPTER 9. GLOBAL HYDRO GENERATOR MARKET SIZE & FORECASTS BY REGION 2022-2032**

- 9.1. North America Hydro Generator Market
  - 9.1.1. U.S. Hydro Generator Market
    - 9.1.1.1. Size breakdown size & forecasts, 2022-2032
    - 9.1.1.2. Type breakdown size & forecasts, 2022-2032
    - 9.1.1.3. Capacity breakdown size & forecasts, 2022-2032
    - 9.1.1.4. End User Industry breakdown size & forecasts, 2022-2032
  - 9.1.2. Canada Hydro Generator Market
- 9.2. Europe Hydro Generator Market
  - 9.2.1. U.K. Hydro Generator Market
  - 9.2.2. Germany Hydro Generator Market
  - 9.2.3. France Hydro Generator Market
  - 9.2.4. Spain Hydro Generator Market
  - 9.2.5. Italy Hydro Generator Market
  - 9.2.6. Rest of Europe Hydro Generator Market
- 9.3. Asia-Pacific Hydro Generator Market
  - 9.3.1. China Hydro Generator Market
  - 9.3.2. India Hydro Generator Market
  - 9.3.3. Japan Hydro Generator Market
  - 9.3.4. Australia Hydro Generator Market
  - 9.3.5. South Korea Hydro Generator Market
  - 9.3.6. Rest of Asia Pacific Hydro Generator Market
- 9.4. Latin America Hydro Generator Market
  - 9.4.1. Brazil Hydro Generator Market
  - 9.4.2. Mexico Hydro Generator Market
  - 9.4.3. Rest of Latin America Hydro Generator Market
- 9.5. Middle East & Africa Hydro Generator Market
  - 9.5.1. Saudi Arabia Hydro Generator Market
  - 9.5.2. South Africa Hydro Generator Market
  - 9.5.3. Rest of Middle East & Africa Hydro Generator Market

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**

- 10.1. Key Company SWOT Analysis
  - 10.1.1. Company
  - 10.1.2. Company
  - 10.1.3. Company

10.2. Top Market Strategies

10.3. Company Profiles

10.3.1. General Electric (GE)

10.3.1.1. Key Information

10.3.1.2. Overview

10.3.1.3. Financial (Subject to Data Availability)

10.3.1.4. Product Summary

10.3.1.5. Market Strategies

10.3.2. Voith GmbH & Co. KGaA

10.3.3. Hitachi Mitsubishi Hydro Corporation

10.3.4. Toshiba America Energy Systems Corporation

10.3.5. Andritz AG

10.3.6. Nidec Industrial Solutions

10.3.7. OJSC Power Machines

10.3.8. WEG SA

10.3.9. Global Hydro Energy GmbH

10.3.10. Siemens AG

## **CHAPTER 11. RESEARCH PROCESS**

11.1. Research Process

11.1.1. Data Mining

11.1.2. Analysis

11.1.3. Market Estimation

11.1.4. Validation

11.1.5. Publishing

11.2. Research Attributes

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Hydro Generator market, report scope

TABLE 2. Global Hydro Generator market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Hydro Generator market estimates & forecasts by Size 2022-2032 (USD Billion)

TABLE 4. Global Hydro Generator market estimates & forecasts by Type 2022-2032 (USD Billion)

TABLE 5. Global Hydro Generator market estimates & forecasts by Capacity 2022-2032 (USD Billion)

TABLE 6. Global Hydro Generator market estimates & forecasts by End User Industry 2022-2032 (USD Billion)

TABLE 7. Global Hydro Generator market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global Hydro Generator market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global Hydro Generator market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global Hydro Generator market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global Hydro Generator market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global Hydro Generator market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global Hydro Generator market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global Hydro Generator market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. Hydro Generator market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. Hydro Generator market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. Hydro Generator market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada Hydro Generator market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Hydro Generator market estimates & forecasts by segment  
2022-2032 (USD Billion)

TABLE 20. Canada Hydro Generator market estimates & forecasts by segment  
2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Hydro Generator market, research methodology
- FIG 2. Global Hydro Generator market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Hydro Generator market, key trends 2023
- FIG 5. Global Hydro Generator market, growth prospects 2022-2032
- FIG 6. Global Hydro Generator market, porters 5 force model
- FIG 7. Global Hydro Generator market, PESTEL analysis
- FIG 8. Global Hydro Generator market, value chain analysis
- FIG 9. Global Hydro Generator market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Hydro Generator market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Hydro Generator market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Hydro Generator market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Hydro Generator market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Hydro Generator market, regional snapshot 2022 & 2032
- FIG 15. North America Hydro Generator market 2022 & 2032 (USD Billion)
- FIG 16. Europe Hydro Generator market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific Hydro Generator market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Hydro Generator market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Hydro Generator market 2022 & 2032 (USD Billion)
- FIG 20. Global Hydro Generator market, company market share analysis (2023)

.....

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

## I would like to order

Product name: Global Hydro Generator Market Size Study, by Size (Large, Small, Micro), by Type (On-Site Generation, Portable), by Capacity (Up to 100 W, 101 to 250 W, 251 to 500 W, 501 to 750 W, 751 W and above), by End User Industry (Oil & Gas, Energy & Power, Others) and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G1B4CCFF6C97EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G1B4CCFF6C97EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970