

# **Global Tidal Power Market Size study & Forecast, by Power Generation Method (Tidal Barrage, Floating Tidal Power Platform, Tidal Stream Generation, and Dynamic Tidal Power) by Tidal Energy Converters (Horizontal Axis Turbine, and More) and Application (Power Generation, Desalination, Marine Propulsion, and More) and Regional Forecasts 2025-2035**

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## **Abstracts**

The Global Tidal Power Market is valued at approximately USD 1.81 billion in 2024 and is anticipated to grow at a steady CAGR of 7.70% over the forecast period 2025-2035, with historical data captured for 2023 and 2024 and 2024 serving as the base year for estimation. Tidal power harnesses the gravitational forces exerted by the moon and sun on Earth's oceans to generate renewable energy, employing diverse technologies such as tidal barrages, floating platforms, and tidal stream turbines. This market is fueled by the increasing global emphasis on clean energy, declining dependence on fossil fuels, and advances in marine engineering that enhance energy conversion efficiency while minimizing environmental disruptions.

The rising global energy demand, coupled with supportive policies and incentives for marine renewable energy deployment, is driving market expansion. Investments in R&D, innovation in turbine design, and the development of multi-purpose tidal energy converters are enabling more reliable and cost-effective power generation. Furthermore, tidal energy's predictability and potential for integration with desalination and marine propulsion systems provide an added layer of value for coastal infrastructure, creating multifaceted opportunities for developers and stakeholders. Challenges such as high capital expenditure and complex underwater installation processes are being mitigated through improved modular designs, robotic deployment systems, and strategic project

financing mechanisms.

The detailed segments and sub-segments included in the report are:

By Power Generation Method:

Tidal Barrage

Floating Tidal Power Platform

Tidal Stream Generation

Dynamic Tidal Power

By Tidal Energy Converters:

Horizontal Axis Turbine

More

By Application:

Power Generation

Desalination

Marine Propulsion

More

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

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Tidal barrages are projected to dominate the market due to their well-established technology, proven efficiency, and ability to provide base-load renewable energy. These installations are particularly suitable for estuarine environments with high tidal ranges and have been pivotal in early tidal power projects globally. However, floating tidal platforms and tidal stream generators are rapidly gaining momentum as scalable and versatile solutions that can be deployed in deeper waters with reduced ecological impact, positioning them as emerging opportunities for future market expansion.

Horizontal axis turbines currently lead in revenue contribution, driven by their superior hydrodynamic efficiency and widespread adoption in commercial tidal energy projects. These turbines maximize energy capture in high-flow tidal currents and are compatible with diverse floating and fixed tidal platforms. Alternative tidal energy converters, while smaller in market share, are gaining traction through innovation, modular designs, and integration capabilities with desalination and marine propulsion applications.

North America accounted for a substantial market share in 2025, owing to established tidal energy research programs, favorable regulatory frameworks, and strategic coastal installations in Canada and the U.S. Europe remains a mature and highly active market, especially in the UK, France, and the Netherlands, where long-standing tidal projects and government-backed initiatives support growth. Asia Pacific is expected to register the fastest expansion, driven by rising energy demand, large-scale pilot projects in China and Japan, and increasing investments in renewable energy infrastructure. Emerging regions in Latin America and the Middle East & Africa are gradually adopting tidal energy as part of their broader renewable energy strategies.

Major market players included in this report are:

Simec Atlantis Energy

Andritz Hydro

Alstom SA

Siemens Gamesa Renewable Energy

Voith Hydro

DP Energy

Marine Current Turbines

OpenHydro

Bluewater Energy Services

Minesto AB

Tocardo International

Naval Energies

HydroWing

Rolls-Royce Marine Power

Energy Technologies Institute

Global Tidal Power Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive

Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035

Annualized revenues and regional-level analysis for each market segment

Detailed analysis of the 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 the competitive structure of the market

Demand side and supply side analysis of the market

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