

# Global Tidal Energy Market Size Study & Forecast, by Type (Tidal Range, Tidal Current/Tidal Stream) and Application (Power Generation, Desalination, Environmental Protection) and Regional Forecasts 2025-2035

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## Abstracts

The Global Tidal Energy Market was valued at approximately USD 1.15 billion in 2024 and, supported by historical data from 2023 and 2024, is projected to expand at a remarkable CAGR of nearly 17% over the forecast period from 2025 to 2035. Tidal energy, harnessed from the predictable rise and fall of ocean tides, stands out as one of the most reliable and consistent forms of renewable energy available today. Unlike wind or solar, tidal cycles are governed by gravitational forces, allowing energy planners to lock in long-term generation forecasts with high accuracy. As global energy systems pivot away from fossil fuels, tidal power is increasingly being positioned as a strategic complement to other renewable technologies.

Market traction is being built up by intensifying climate commitments, coastal energy security concerns, and rapid technological maturation of marine energy systems. Governments and private developers alike are scaling up pilot projects into commercial deployments, particularly in regions with strong tidal amplitudes and favorable coastal topographies. Continuous innovation in turbine efficiency, corrosion-resistant materials, and subsea grid connectivity is helping push down operational risks and lifecycle costs. However, high capital requirements, complex permitting processes, and environmental impact assessments continue to slow down project timelines, tempering growth momentum despite strong long-term fundamentals.

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

By Type:

Tidal Range

Tidal Current / Tidal Stream

By Application:

Power Generation

Desalination

Environmental Protection

By Region:

North America

U.S.

Canada

Europe

UK

France

Germany

Spain

Norway

Rest of Europe

## Asia Pacific

China

South Korea

India

Japan

Australia

Rest of Asia Pacific

## Latin America

Brazil

Chile

## Middle East & Africa

UAE

South Africa

Rest of Middle East & Africa

Power generation is expected to dominate the tidal energy market, accounting for the majority of installed capacity and future project pipelines. As nations search for dependable renewable baseload power, tidal systems are increasingly being rolled out to stabilize grids that are heavily reliant on intermittent sources. Coastal and island regions, in particular, are scaling up tidal power projects to reduce dependence on imported fuels while strengthening local energy resilience. With commercial-scale plants gaining regulatory approval, power generation is set to remain the market's primary growth engine.

From a revenue perspective, tidal range technology currently leads the market, driven by established infrastructure such as barrages and lagoons that enable high-capacity electricity production. These systems benefit from long asset lifespans and proven engineering concepts, making them attractive to large-scale investors. Meanwhile, tidal current and tidal stream technologies are rapidly gaining momentum due to their lower environmental footprint and modular deployment capabilities. While still emerging, tidal stream systems are widely viewed as the fastest-growing segment, signaling a gradual shift in future revenue distribution as technology costs decline.

Regionally, Europe remains the epicenter of tidal energy development, supported by strong policy backing, advanced marine engineering expertise, and extensive coastlines with high tidal potential, particularly in the UK and France. North America follows, with increasing investments along the Atlantic and Pacific coasts, driven by clean energy mandates and research funding. Asia Pacific is poised to register the fastest growth over the forecast period, as countries such as South Korea and China aggressively invest in marine renewables to diversify their energy mix and meet escalating electricity demand from coastal urban centers.

Major market players included in this report are:

Siemens Energy

Andritz AG

EDF Renewables

Orbital Marine Power

Mitsubishi Heavy Industries

Atlantis Resources Ltd.

Simec Atlantis Energy

Lockheed Martin Corporation

General Electric

HydroQuest

Minesto AB

Sustainable Marine Energy

Voith GmbH & Co. KGaA

Toshiba Corporation

Nautricity Ltd.

#### Global Tidal Energy 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 the market sizes of different segments and countries in recent years and to forecast their values over the coming decade. The report integrates both qualitative insights and quantitative analysis to capture the evolving dynamics of the tidal energy ecosystem. It sheds light on critical growth drivers, regulatory and environmental challenges, and emerging micro-market opportunities, while also delivering a detailed assessment of competitive positioning and technology strategies adopted by key industry players.

### Key Takeaways:

Market estimates and forecasts for 10 years from 2025 to 2035.

Annualized revenue analysis at global, regional, and segment levels.

In-depth geographical insights with country-level evaluations.

Comprehensive competitive landscape analysis.

Strategic recommendations for future market entry and expansion.

Evaluation of the competitive structure of the market.

Demand-side and supply-side assessment of the global tidal energy industry.

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