

Global Buoy-type Wave Energy Converter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Buoy-type Wave Energy Converter market size is expected to reach \$ 94.16 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Floating Buoy Wave Energy Converter is a type of marine renewable energy device that utilizes buoys, floats, or other dedicated floating structures to capture wave-induced heave, pitch, roll, and relative motions, converting the mechanical energy of ocean waves into electricity through mechanical, hydraulic, pneumatic, or direct-drive power conversion systems. This study focuses on complete wave energy converter systems capable of independent energy capture, power generation, power regulation, control and monitoring, and mooring and anchoring operations, which can be deployed and operated in real marine environments for extended periods. The major components include the floating energy capture structure, power conversion system, generator, power electronics unit, control and monitoring module, energy storage unit, mooring and anchoring system, and marine environmental protection structures. The main product forms include point absorber buoy wave energy converters, internal oscillator-type buoy devices, floating oscillating water column (OWC) devices, direct-drive linear generator wave energy converters, and hybrid wave energy power supply platforms. At the current commercialization and full-scale demonstration stage, the rated power of such devices is typically concentrated in the range of 10 kW to 600 kW, floating body dimensions generally range from several meters to more than ten meters, and the overall system weight typically varies from several tons to several tens of tons. Key performance parameters include rated output power, peak power, applicable wave height, operating water depth, energy conversion efficiency, equipment availability, mooring load, design lifetime, and survival capability under extreme sea conditions. Major applications include wave energy demonstration projects, offshore distributed power supply, power systems

for marine observation platforms, offshore communication nodes, and charging or energy supply for underwater equipment and autonomous underwater vehicles (AUVs).

Key Findings

Global deliveries of buoy-type wave energy converters reached approximately 14–20 units in 2025.

The global weighted average selling price was approximately US\$2.8 million–4.0 million per unit in 2025.

The overall industry gross margin remained at approximately 25%–40%.

Market Trends

Product development is shifting from maximizing theoretical energy capture toward balancing power generation, storm survivability, maintainability and lifecycle economics. Phase-control systems, digital twins, remote diagnostics, adaptive power take-off control and automatic transitions between production and survival modes are becoming central elements of product differentiation. Manufacturers are also moving toward modular drivetrains, locally produced hulls and standardized electrical interfaces to reduce transport, installation and replacement costs. Hybrid integration is another visible trend, particularly for offshore applications that require uninterrupted power rather than maximum annual electricity production. Combining wave energy with solar generation and battery storage can improve power availability across different sea and weather conditions. At the utility end of the market, development is progressing from single full-scale devices toward industrialized machines and multi-unit arrays, while distributed systems are increasingly packaged with communications, storage and load-management functions. This creates two parallel commercialization paths with different power ratings, customers, qualification cycles and cost structures.

Market Dynamics

Drivers

Demand growth is being supported by the expansion of offshore sensing, autonomous marine systems, subsea infrastructure and remote industrial operations that require persistent power without frequent vessel intervention. Ocean observation, environmental monitoring, defense surveillance, aquaculture, marine carbon management and AUV docking all create potential loads for distributed wave-powered platforms. Government programmes are also lowering technical and financial barriers by funding fabrication, open-water testing and longer-duration system validation. The United States has established a funding framework of up to US\$112.5 million for distributed, community and utility wave-energy applications, while the PacWave South facility is designed to host as many as 20 wave energy converters with a combined capacity of up to 20 MW. These programmes do not directly represent equipment revenue, but they improve test access, generate performance data, support certification and reduce development risk. Wave energy also offers a generation profile that can complement wind and solar, strengthening its potential role in offshore microgrids and diversified renewable-power systems.

Restraints

Commercial adoption is constrained by high capital intensity, limited operating history and the difficulty of proving reliability across diverse sea states. Equipment must withstand corrosion, biofouling, fatigue, impact loads, mooring forces and extreme storms while remaining accessible for maintenance. Offshore deployment requires specialized vessels, permitting, environmental monitoring and site-specific engineering, meaning that installation and operating expenditure can equal or exceed the cost of the converter itself. The lack of standardized production volumes also restricts supplier learning and keeps key components expensive. Revenue recognition is irregular because projects may span several years from design and fabrication to offshore commissioning and acceptance. In addition, low-cost solar, wind and battery systems provide strong competition in many coastal and island applications. Wave energy therefore needs to demonstrate not only electricity generation but also reduced vessel visits, higher availability, complementary output and lower lifecycle cost for specific offshore loads. Limited access to affordable test infrastructure and development capital remains a major barrier for smaller technology suppliers.

Opportunities

The most immediate opportunities lie in applications where the economic value of local power is substantially higher than conventional grid electricity. Offshore communication

nodes, environmental sensors, subsea production equipment, autonomous underwater vehicles, marine security systems and deep-water aquaculture facilities can incur high costs for cable installation, battery replacement and vessel-based maintenance. Wave-powered units can create value by extending mission duration and supporting real-time data transmission, charging and remote control. The development of wave-to-wire AUV docking and recharging systems illustrates how the product can evolve into enabling infrastructure for autonomous ocean operations. A second opportunity is the development of coastal and island systems that combine electricity supply with water production or microgrid support. Over the longer term, grid-connected arrays may create demand for repeatable hulls, modular generators, common subsea connections and standardized maintenance procedures. Suppliers able to serve both distributed applications and scalable arrays may benefit from shared technology platforms and a broader route to revenue.

Challenges

The industry must convert successful demonstrations into repeatable commercial performance. This requires consistent power curves, verified availability, predictable maintenance intervals and bankable warranties rather than isolated technical milestones. Developers also face the challenge of selecting designs that capture sufficient energy in normal waves while limiting mechanical loads in extreme events. Certification and environmental assessment remain complex because device structures, mooring systems and operating modes differ substantially among technologies. Supply chains must develop capabilities in marine-grade composites, precision power take-off equipment, subsea connectors, corrosion protection and specialized installation services without relying on large existing order volumes. Financing is another critical issue: early projects depend on grants and strategic investors, while commercial lenders require long-term operational evidence. The transition to arrays further introduces wake interaction, shared electrical infrastructure, offshore logistics and coordinated control requirements. Companies that cannot simplify installation and maintenance may struggle even if their energy-conversion performance is technically strong.

Industry Chain Analysis

The upstream industry includes marine-grade steel and composite materials, coatings, bearings, seals, hydraulic or electromechanical power take-off components, generators, silicon-carbide inverters, batteries, sensors, subsea cables, anchors and mooring

equipment. Upstream suppliers must meet strict requirements for fatigue life, corrosion resistance, watertight integrity and offshore maintainability. The midstream segment comprises technology developers and equipment manufacturers responsible for hydrodynamic design, structural engineering, power conversion, controls, system integration, testing and project delivery. Manufacturing is generally project-based and combines proprietary components with specialized contract fabrication. The downstream market includes ocean observation, offshore communication and navigation, underwater sensors and AUV charging, aquaculture and marine ranching, offshore industrial infrastructure and future utility-scale wave farms. Marine contractors, ports, test centres, classification organizations and operations providers connect the stages of the chain. As commercialization advances, value-chain coordination and local port-based manufacturing are expected to become increasingly important for controlling logistics and installation costs.

Value Chain Analysis

The highest-value activities are concentrated in proprietary hydrodynamic design, power take-off technology, control algorithms, survivability engineering and full-system integration. Hull fabrication and conventional metalwork may be outsourced, but the equipment provider retains responsibility for performance, reliability and offshore system compatibility. Project value is also created through site assessment, mooring design, electrical integration, installation planning, remote monitoring and lifecycle service. In the current low-volume market, engineering and validation expenses represent a substantial portion of total product value, which supports relatively high selling prices but limits operating leverage. As production expands, manufacturers are expected to standardize drivetrains, controls and interfaces while localizing bulky hull and foundation production near deployment sites. This approach can reduce transport cost and create regional supply chains around ports. Downstream customers increasingly evaluate total avoided cost, including cable expenditure, vessel visits, battery replacement and downtime, rather than comparing the converter only with the cost of grid electricity.

Segment Insights

Within the established technology segmentation, point absorbers represent the principal commercial-development route because their compact floating structures can capture energy from multiple wave directions and support both distributed and utility-oriented configurations. Oscillating water column systems use internal water-column motion and pneumatic conversion, offering a distinct mechanical architecture for larger floating

units. Direct-drive linear-generator products reduce intermediate transmission stages and are particularly relevant where designers prioritize conversion simplicity and lower hydraulic maintenance. Hybrid wave and solar or wind systems are gaining importance in distributed offshore applications because customers require stable power delivery rather than dependence on one renewable resource. By power rating, products extend from sub-kilowatt and low-kilowatt devices for sensors to tens of kilowatts for offshore equipment and hundreds of kilowatts for full-scale grid demonstrations. Market value remains weighted toward larger engineered systems, while future unit-volume growth may increasingly come from smaller standardized platforms.

Downstream Market Opportunities

Ocean observation and monitoring represent an attractive early market because buoys, meteorological instruments and environmental sensors require continuous low-to-medium power for sensing, processing and satellite communication. Offshore communication and navigation create demand for reliable power at remote relay stations, markers and data nodes. Underwater sensors and AUV charging offer higher strategic value because local energy can extend autonomous missions and reduce retrieval or battery-replacement operations. Offshore aquaculture and marine ranching provide additional opportunities through water-quality monitoring, automated feeding, communications, lighting and equipment control. These applications generally value reliability, reduced maintenance and persistent connectivity more than the lowest electricity cost. Suppliers that integrate generation, storage, communications and remote asset management can therefore capture a larger share of downstream value than companies selling a basic converter. Utility generation remains a longer-term market requiring multi-unit arrays, standardized installation and revenue-support mechanisms, but it offers substantially greater equipment demand once technical and financing barriers are reduced.

Regional Insights

Europe has the strongest concentration of commercial-scale wave-energy development, supported by Atlantic test locations, specialized engineering supply chains, public funding and a pipeline of pre-commercial projects. The region has moved from individual devices toward next-generation industrialized machines and planned multi-megawatt arrays. North America places greater emphasis on open-water validation, distributed blue-economy applications, defense-related uses and future grid-connected

testing, with PacWave providing important infrastructure for longer-duration trials. China is building capabilities in small and medium-size wave-powered buoys and localized marine applications, although commercial evidence remains more fragmented. Japan has historical experience in wave-powered navigation buoys, while South Korea and India have advanced prototype and demonstration activities but limited repeat commercial deliveries. Australia also retains important technology-development capabilities. Regional competitiveness is therefore determined not only by wave resources but also by test infrastructure, port capability, public support, industrial partners and access to offshore customers.

Competitive Landscape Analysis

The competitive landscape remains fragmented and technology-led, with a limited number of companies possessing full-scale manufacturing, open-water deployment and long-duration operating experience. Market leadership cannot be assessed solely through current revenue because many suppliers are privately held and project income is irregular. More relevant indicators include commercial-scale device completion, grid export, storm survivability, cumulative operating hours, repeat deployments, manufacturing readiness and progress toward array projects. European suppliers are generally stronger in utility-oriented point absorbers and wave-farm development, while North American participants have greater exposure to distributed offshore power, government testing and defense-linked applications. Asian suppliers are more concentrated in low-power buoys, localized engineering and demonstration programmes. Competition is gradually expanding beyond energy-capture performance into standardized manufacturing, remote operations, warranty capability and lifecycle service. Strategic investment and public capital are increasingly directed toward companies that can translate tested prototypes into industrialized products and credible multi-device deployment plans.

Report Scope

This report studies the global Buoy-type Wave Energy Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Buoy-type Wave Energy Converter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends

and competition, as well as details the characteristics of Buoy-type Wave Energy Converter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Buoy-type Wave Energy Converter total production and demand, 2021-2032, (Units)

Global Buoy-type Wave Energy Converter total production value, 2021-2032, (USD Million)

Global Buoy-type Wave Energy Converter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Buoy-type Wave Energy Converter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Buoy-type Wave Energy Converter domestic production, consumption, key domestic manufacturers and share

Global Buoy-type Wave Energy Converter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Buoy-type Wave Energy Converter production by Power Rating, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Buoy-type Wave Energy Converter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Buoy-type Wave Energy Converter market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ocean Power Technologies, Inc., CorPower Ocean AB, Seabased AB, Mocean Energy Ltd., Carnegie Clean Energy Limited, Ningbo Huge Wave New Energy Technology Co., Ltd., CalWave Power Technologies Inc., NEMOS GmbH, Oscilla Power, Inc., Ryokuseisha Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Buoy-type Wave Energy Converter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Power Rating, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Buoy-type Wave Energy Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Buoy-type Wave Energy Converter Market, Segmentation by

Global Buoy-type Wave Energy Converter Supply, Demand and Key Producers, 2026-2032

Power Rating:

Small-scale Buoy-type Wave Energy Converter(10–50 kW)

Medium-scale Buoy-type Wave Energy Converter(50–200 kW)

Large-scale Buoy-type Wave Energy Converter(200–600 kW)

Others

Global Buoy-type Wave Energy Converter Market, Segmentation by Technology Route:

Seabed Mounted Tidal Turbine

Floating Tidal Turbine

Submerged Kite Tidal Turbine

Others

Global Buoy-type Wave Energy Converter Market, Segmentation by Application:

Marine Environmental Monitoring

Offshore Communication and Navigation

Underwater Exploration and Robotics

Marine Aquaculture and Ranching

Offshore Infrastructure

Renewable Energy Generation

Others

Companies Profiled:

Ocean Power Technologies, Inc.

CorPower Ocean AB

Seabased AB

Mocean Energy Ltd.

Carnegie Clean Energy Limited

Ningbo Huge Wave New Energy Technology Co., Ltd.

CalWave Power Technologies Inc.

NEMOS GmbH

Oscilla Power, Inc.

Ryokuseisha Corporation

Key Questions Answered

1. How big is the global Buoy-type Wave Energy Converter market?
2. What is the demand of the global Buoy-type Wave Energy Converter market?
3. What is the year over year growth of the global Buoy-type Wave Energy Converter market?
4. What is the total value of the global Buoy-type Wave Energy Converter market?
5. Who are the Major Players in the global Buoy-type Wave Energy Converter market?
6. What are the growth factors driving the market demand?

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