

# Global Wave Power Generation Devices Market Growth 2022-2028

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## Abstracts

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Wave energy (or wave power) is the transport and capture of energy by ocean surface waves. The energy captured is then used for all different kinds of useful work, including electricity generation, water desalination, and pumping of water. Wave energy is also a type of renewable energy and is the largest estimated global resource form of ocean energy. The representative Wave Power Generation Equipment include:

### a) Attenuator

An attenuator is a floating device which operates parallel to the wave direction and effectively rides the waves. These devices capture energy from the relative motion of the two arms as the wave passes them.

### b) Point absorber

A point absorber is a floating structure which absorbs energy from all directions through its movements at/near the water surface. It converts the motion of the buoyant top relative to the base into electrical power. The power take-off system may take a number of forms, depending on the configuration of displacers/reactors.

### c) Oscillating wave surge converter

Oscillating wave surge converters extract energy from wave surges and the movement of water particles within them. The arm oscillates as a pendulum mounted on a pivoted joint in response to the movement of water in the waves.

#### d) Oscillating water column

An oscillating water column is a partially submerged, hollow structure. It is open to the sea below the water line, enclosing a column of air on top of a column of water. Waves cause the water column to rise and fall, which in turn compresses and decompresses the air column. This trapped air is allowed to flow to and from the atmosphere via a turbine, which usually has the ability to rotate regardless of the direction of the airflow. The rotation of the turbine is used to generate electricity.

#### e) Overtopping/terminator device

Overtopping devices capture water as waves break into a storage reservoir. The water is then returned to the sea passing through a conventional low-head turbine which generates power. An overtopping device may use 'collectors' to concentrate the wave energy.

Also submerged pressure differential, bulge wave, rotating mass etc.

The global market for Wave Power Generation Devices is estimated to increase from US\$ million in 2021 to reach US\$ million by 2028, exhibiting a CAGR of % during 2022-2028. Keeping in mind the uncertainties of COVID-19 and Russia-Ukraine War, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

The APAC Wave Power Generation Devices market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The United States Wave Power Generation Devices market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The Europe Wave Power Generation Devices market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The China Wave Power Generation Devices market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

Global key Wave Power Generation Devices players cover C-Power, AW-Energy, Hann-

Ocean, AWS Ocean Energy and Bombora Wave Power, etc. In terms of revenue, the global largest two companies occupy a share nearly % in 2021.

## Report Coverage

This latest report provides a deep insight into the global Wave Power Generation Devices market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, value chain analysis, etc.

This report aims to provide a comprehensive picture of the global Wave Power Generation Devices market, with both quantitative and qualitative data, to help readers understand how the Wave Power Generation Devices market scenario changed across the globe during the pandemic and Russia-Ukraine War.

The base year considered for analyses is 2021, while the market estimates and forecasts are given from 2022 to 2028. The market estimates are provided in terms of revenue in USD millions and volume in kW.

## Market Segmentation:

The study segments the Wave Power Generation Devices market and forecasts the market size by Type (Attenuators, Point Absorbers and Oscillating Wave Surge Converters), by Application (Utility Grid, Industrial, Science and Research and Oil and Gas), and region (APAC, Americas, Europe, and Middle East & Africa).

## Segmentation by type

Attenuators

Point Absorbers

Oscillating Wave Surge Converters

Oscillating Water Columns

Others

## Segmentation by application

Utility Grid

Industrial

Science and Research

Oil and Gas

Defense and Security

Others

## Segmentation by region

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

Major companies covered

C-Power

AW-Energy

Hann-Ocean

AWS Ocean Energy

Bombora Wave Power

Wello

Oscilla Power

Mocean Energy

Wave Swell Energy

SINN Power

Ocean Power Technologies (OPT)

CorPower Ocean

## Chapter Introduction

Chapter 1: Scope of Wave Power Generation Devices, Research Methodology, etc.

Chapter 2: Executive Summary, global Wave Power Generation Devices market size (sales and revenue) and CAGR, Wave Power Generation Devices market size by region, by type, by application, historical data from 2017 to 2022, and forecast to 2028.

Chapter 3: Wave Power Generation Devices sales, revenue, average price, global market share, and industry ranking by company, 2017-2022

Chapter 4: Global Wave Power Generation Devices sales and revenue by region and by country. Country specific data and market value analysis for the U.S., Canada, Europe, China, Japan, South Korea, Southeast Asia, India, Latin America and Middle East & Africa.

Chapter 5, 6, 7, 8: Americas, APAC, Europe, Middle East & Africa, sales segment by country, by type, and type.

Chapter 9: Analysis of the current market trends, market forecast, opportunities and economic trends that are affecting the future marketplace

Chapter 10: Manufacturing cost structure analysis

Chapter 11: Sales channel, distributors, and customers

Chapter 12: Global Wave Power Generation Devices market size forecast by region, by country, by type, and application.

Chapter 13: Comprehensive company profiles of the leading players, including C-Power, AW-Energy, Hann-Ocean, AWS Ocean Energy, Bombora Wave Power, Wello, Oscilla Power, Mocean Energy and Wave Swell Energy, etc.

Chapter 14: Research Findings and Conclusion

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