

Global Wave Power Generation Devices Production, Demand and Key Producers, 2022-2028

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Abstracts

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.

This report studies the global Wave Power Generation Devices production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wave Power Generation Devices, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2021 as the base year. This report explores demand trends and competition, as well as details the characteristics of Wave Power Generation Devices that contribute to its increasing demand across many markets.

The global Wave Power Generation Devices market size is expected to reach \$ million by 2028, rising at a market growth of % CAGR during the forecast period (2022-2028).

Highlights and key features of the study

Global Wave Power Generation Devices total production and demand, 2017-2028, (kW)

Global Wave Power Generation Devices total production value, 2017-2028, (USD Million)

Global Wave Power Generation Devices production by region & country, production, value, CAGR, 2017-2028, (USD Million) & (kW)

Global Wave Power Generation Devices consumption by region & country, CAGR, 2017-2028 & (kW)

U.S. VS China: Wave Power Generation Devices domestic production, consumption, key domestic manufacturers and share

Global Wave Power Generation Devices production by manufacturer, production, price, value and market share 2017-2022, (USD Million) & (kW)

Global Wave Power Generation Devices production by Type, production, value, CAGR, 2017-2028, (USD Million) & (kW)

Global Wave Power Generation Devices production by Application production, value, CAGR, 2017-2028, (USD Million) & (kW)

This reports profiles key players in the global Wave Power Generation Devices market based on the following parameters – headquarters, production locations, products portfolio, Wave Power Generation Devices revenue, sales, average price and gross margin, recent developments.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Wave Power Generation Devices market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kW) and average price (USD/kW) by manufacturer, by Type, and by Application. Data is given for the years 2017-2028 by year with 2021 as the base year, 2022 as the estimate year, and 2028 as the forecast year.

Global Wave Power Generation Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Global Wave Power Generation Devices Market, Segmentation by Type

Attenuators

Point Absorbers

Oscillating Wave Surge Converters

Oscillating Water Columns

Others

Global Wave Power Generation Devices Market, Segmentation by Application

Utility Grid

Industrial

Science and Research

Oil and Gas

Defense and Security

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global Wave Power Generation Devices market?
2. What is the demand of the global Wave Power Generation Devices market?
3. What is the year over year growth of the global Wave Power Generation Devices market?
4. What is the production and production value of the global Wave Power Generation Devices market?

5. Who are the key producers in the global Wave Power Generation Devices market?
6. What are the growth factors driving the market demand?

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