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Global Seawater Radiation Detection Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Seawater Radiation Detection Equipment market size is expected to reach $ 2995 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

Seawater radiation detection equipment refers to specialized instruments and systems used in environments such as open seawater, coastal waters, nuclear power plant intake and discharge points, marine buoys, unmanned surface vessel (USV) platforms, marine environmental monitoring stations, and laboratories. These systems perform detection, identification, quantification, alarming, and data transmission for radiological parameters?including gamma dose rates, gamma radionuclides, total alpha, total beta, tritium, Cesium-137, Cobalt-60, and Iodine-131. Key product categories include online seawater gamma monitoring systems, tritiated water monitoring systems, total alpha/beta water monitoring equipment, laboratory gamma spectroscopy systems, liquid scintillation counting systems, buoy-based radiation monitoring systems, and USV-mounted radiation monitoring systems. In 2025, global sales volume for this equipment is projected to be approximately 1.15 million units, with an average unit price of around $1,553, an industry-wide capacity utilization rate of approximately 64.8%, and a gross profit margin of about 42.5%. Upstream suppliers include manufacturers of high-purity germanium (HPGe) detectors, sodium iodide (NaI) crystals, lanthanum bromide (LaBr3) crystals, liquid scintillation counting modules, photomultiplier tubes (PMTs), silicon photomultipliers (SiPMs), low-noise electronics, shielding materials, waterproof/corrosion-resistant structural components, sampling pumps, marine buoys, USV platforms, communication modules, power supply systems, and software algorithms. Downstream sectors include nuclear power operations, ecological and environmental monitoring, marine monitoring, nuclear accident emergency response, scientific research institutes, customs and ports, military and maritime security, and third-

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party testing services. The product cost structure is broken down as follows: detectors and spectroscopy modules (approx. 31%), sampling and flow path systems (10%), waterproof/corrosion-resistant housings and shielding structures (11%), data acquisition, communication, and software platforms (13%), marine platforms and power supply accessories (9%), assembly, commissioning, and calibration/testing (8%), labor and manufacturing overhead (6%), after-sales maintenance and spare parts (5%), and R&D, certification, and management expenses (7%). The list of required products includes online seawater gamma monitoring systems, online tritiated water monitors, total alpha/beta water monitors, online radiation monitoring systems for marine buoys, radiation monitoring systems for unmanned surface vessels (USVs), laboratory-grade high-purity germanium (HPGe) gamma spectrometers, liquid scintillation counters, low-background alpha/beta counters, and remote data platforms. Downstream clients include nuclear power plants, ecological and environmental authorities, marine environmental monitoring centers, nuclear and radiation safety regulatory bodies, emergency management agencies, customs and port authorities, marine research institutes, third-party testing agencies, and marine engineering general contractors. Business opportunities are driven by policy factors?such as nuclear safety regulation, marine ecological and environmental protection, the coastal siting of nuclear power plants, the strengthening of monitoring systems following nuclear-contaminated water incidents, and the management of cross-border marine environmental risks?as well as by technological innovations in areas like low-background detection, gamma-spectroscopic nuclide identification, online tritiated water monitoring, long-term buoy power supply, autonomous patrol monitoring by USVs, remote data platforms, and multi-sensor fusion. Additionally, shifting consumer demands are reflected in heightened public concern regarding seafood safety, transparency of the marine environment, real-time early warning capabilities, and the traceability of monitoring data.

On August 24, 2023, Japan began discharging treated nuclear wastewater into the ocean, a process expected to continue for 30 years. While ALPS treatment removes most radionuclides?with the exception of tritium?the discharged water still contains radioactive isotopes such as tritium and carbon-14, which could potentially pose risks to human health through the marine food chain. Concerns regarding nuclear radiation have heightened the demand for nuclear contamination treatment and radioactive element monitoring, a trend expected to drive the long-term growth of the market for seawater radiation detection equipment.

This report studies the global Seawater Radiation Detection Equipment production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for Seawater Radiation Detection Equipment 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 Seawater Radiation Detection Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Seawater Radiation Detection Equipment total production and demand, 2021-2032, (K Units)
Global Seawater Radiation Detection Equipment total production value, 2021-2032, (USD Million)
Global Seawater Radiation Detection Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Seawater Radiation Detection Equipment consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Seawater Radiation Detection Equipment domestic production, consumption, key domestic manufacturers and share
Global Seawater Radiation Detection Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Seawater Radiation Detection Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Seawater Radiation Detection Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Seawater Radiation Detection Equipment 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 Mirion Technologies, Inc.?US?, Thermo Fisher Scientific Inc.?US?, Bertin Technologies?FR?, NATS Incorporated?US?, AMETEK ORTEC?US?, LabLogic Group?GB?, NUVIATech Instruments?FR?, US Nuclear Corp?US?, Berthold Technologies GmbH & Co. KG?DE?, Hidex Oy?FI?, 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 Seawater Radiation Detection Equipment market

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Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, 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 Seawater Radiation Detection Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Seawater Radiation Detection Equipment Market, Segmentation by Type:

Portable Testing Equipment

Non-portable Testing Equipment

Global Seawater Radiation Detection Equipment Market, Segmentation by Detection Mode:

Passive Detection System

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Active Detection System

Global Seawater Radiation Detection Equipment Market, Segmentation by MDA (137Cs in Seawater):

0.1 - 1.0 Bq/L

>1.0 Bq/L

Global Seawater Radiation Detection Equipment Market, Segmentation by Application:

Public Health Use

Personal Use

Companies Profiled:

Mirion Technologies, Inc.?US?

Thermo Fisher Scientific Inc.?US?

Bertin Technologies?FR?

NATS Incorporated?US?

AMETEK ORTEC?US?

LabLogic Group?GB?

NUVIATech Instruments?FR?

US Nuclear Corp?US?

Berthold Technologies GmbH & Co. KG?DE?

Hidex Oy?FI?

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Baltic Scientific Instruments?LV?

Beijing Nucsafe Technology Co., Ltd.?CN?

Wuhan Seelong Technology Co., Ltd.?CN?

Epic Crystal Co., Ltd.?CN?

Revvity, Inc.?US?

Scienta Envinet?DE?

Nuctech Company Limited?CN?

Key Questions Answered:
1. How big is the global Seawater Radiation Detection Equipment market?
2. What is the demand of the global Seawater Radiation Detection Equipment market?
3. What is the year over year growth of the global Seawater Radiation Detection Equipment market?
4. What is the production and production value of the global Seawater Radiation Detection Equipment market?
5. Who are the key producers in the global Seawater Radiation Detection Equipment market?
6. What are the growth factors driving the market demand?

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