

Global Radioisotope Piezoelectric Generators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Radioisotope Piezoelectric Generators market size was valued at US\$ 57.62 million in 2025 and is forecast to a readjusted size of US\$ 102 million by 2032 with a CAGR of 8.5% during review period.

In 2025, global Radioisotope Piezoelectric Generator output was about 15,000 units, with capacity of 20,000 units per year, average price around USD 3,700, and gross margins about 39%. A Radioisotope Piezoelectric Generator (RPG) is a type of nuclear micro-power source that converts the mechanical energy generated by radioactive decay into electricity using piezoelectric materials. In these systems, energy released from a radioisotope—typically isotopes such as Plutonium-238, Nickel-63, or Strontium-90—produces periodic thermal expansion, radiation pressure, or mechanical vibrations that repeatedly stress a piezoelectric crystal (e.g., PZT, quartz, or lead-free piezo ceramics), generating an electric charge. Unlike traditional thermoelectric radioisotope generators, RPGs harvest energy through mechanical oscillation rather than temperature gradients, making them suitable for ultra-low-power, long-lifetime applications. The supply chain begins upstream with radioisotope production in nuclear reactors or particle accelerators, along with the manufacturing of piezoelectric ceramics, micro-mechanical oscillators, and radiation shielding materials. Midstream activities involve precision micro-energy-harvesting device fabrication, hermetic encapsulation, and nuclear safety integration. Downstream, these generators are deployed in deep-space probes, remote sensing equipment, autonomous scientific instruments, long-life IoT sensors, and specialized defense or nuclear monitoring systems where maintenance-free power sources capable of operating for decades are required.

This report is a detailed and comprehensive analysis for global Radioisotope Piezoelectric Generators market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Radioisotope Piezoelectric Generators market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Radioisotope Piezoelectric Generators market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Radioisotope Piezoelectric Generators market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Radioisotope Piezoelectric Generators market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Radioisotope Piezoelectric Generators

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Radioisotope Piezoelectric Generators market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments.

Key companies covered as a part of this study include City Labs, Widetronix, Zeno Power Systems, Beijing Betavolt, Arkenlight, Rosatom, etc.

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

Market Segmentation

Radioisotope Piezoelectric Generators market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Plutonium-238 Based RPGs

Nickel-63 Based RPGs

Strontium-90 Based RPGs

Promethium-147 Based RPGs

Market segment by Energy Conversion Mechanism

Radiation-induced Vibration RPGs

Thermo-mechanical RPGs

Resonant Oscillator RPGs

Impact-driven RPGs

Market segment by Application

Space Exploration

Military Systems

Nuclear Energy

Others

Major players covered

City Labs

Widetronix

Zeno Power Systems

Beijing Betavolt

Arkenlight

Rosatom

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Radioisotope Piezoelectric Generators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Radioisotope Piezoelectric Generators, with price, sales quantity, revenue, and global market share of Radioisotope Piezoelectric Generators from 2021 to 2026.

Chapter 3, the Radioisotope Piezoelectric Generators competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Radioisotope Piezoelectric Generators breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Radioisotope Piezoelectric Generators market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Radioisotope Piezoelectric Generators.

Chapter 14 and 15, to describe Radioisotope Piezoelectric Generators sales channel, distributors, customers, research findings and conclusion.

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