

Global Radioisotope Piezoelectric Generators Market Growth 2026-2032

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Abstracts

The global Radioisotope Piezoelectric Generators market size is predicted to grow from US\$ 54.78 million in 2025 to US\$ 100 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

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.

United States market for Radioisotope Piezoelectric Generators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through

2032.

China market for Radioisotope Piezoelectric Generators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Radioisotope Piezoelectric Generators is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Radioisotope Piezoelectric Generators players cover City Labs, Widetronix, Zeno Power Systems, Beijing Betavolt, Arkenlight, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Radioisotope Piezoelectric Generators Industry Forecast" looks at past sales and reviews total world Radioisotope Piezoelectric Generators sales in 2025, providing a comprehensive analysis by region and market sector of projected Radioisotope Piezoelectric Generators sales for 2026 through 2032. With Radioisotope Piezoelectric Generators sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Radioisotope Piezoelectric Generators industry.

This Insight Report provides a comprehensive analysis of the global Radioisotope Piezoelectric Generators landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Radioisotope Piezoelectric Generators portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Radioisotope Piezoelectric Generators market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Radioisotope Piezoelectric Generators and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Radioisotope Piezoelectric Generators.

This report presents a comprehensive overview, market shares, and growth opportunities of Radioisotope Piezoelectric Generators market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

Plutonium-238 Based RPGs

Nickel-63 Based RPGs

Strontium-90 Based RPGs

Promethium-147 Based RPGs

Segmentation by Energy Conversion Mechanism:

Radiation-induced Vibration RPGs

Thermo-mechanical RPGs

Resonant Oscillator RPGs

Impact-driven RPGs

Segmentation by Application:

Space Exploration

Military Systems

Nuclear Energy

Others

This report also splits the market 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

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

City Labs

Widetronix

Zeno Power Systems

Beijing Betavolt

Arkenlight

Rosatom

Key Questions Addressed in this Report

What is the 10-year outlook for the global Radioisotope Piezoelectric Generators market?

What factors are driving Radioisotope Piezoelectric Generators market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Radioisotope Piezoelectric Generators market opportunities vary by end market size?

How does Radioisotope Piezoelectric Generators break out by Type, by

Application?

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