

# Global Radioisotope Piezoelectric Generators Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Radioisotope Piezoelectric Generators market size is expected to reach \$ 102 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Radioisotope Piezoelectric Generators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Radioisotope Piezoelectric Generators 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 Radioisotope Piezoelectric Generators that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Radioisotope Piezoelectric Generators total production and demand, 2021-2032, (Units)

Global Radioisotope Piezoelectric Generators total production value, 2021-2032, (USD Million)

Global Radioisotope Piezoelectric Generators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Radioisotope Piezoelectric Generators consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Radioisotope Piezoelectric Generators domestic production, consumption, key domestic manufacturers and share

Global Radioisotope Piezoelectric Generators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Radioisotope Piezoelectric Generators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Radioisotope Piezoelectric Generators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Radioisotope Piezoelectric Generators 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Radioisotope Piezoelectric Generators market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Radioisotope Piezoelectric Generators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Radioisotope Piezoelectric Generators Market, Segmentation by Type:

Plutonium-238 Based RPGs

Nickel-63 Based RPGs

Strontium-90 Based RPGs

Promethium-147 Based RPGs

Global Radioisotope Piezoelectric Generators Market, Segmentation by Energy Conversion Mechanism:

Radiation-induced Vibration RPGs

Thermo-mechanical RPGs

Resonant Oscillator RPGs

Impact-driven RPGs

Global Radioisotope Piezoelectric Generators Market, Segmentation by Application:

Space Exploration

Military Systems

Nuclear Energy

Others

Companies Profiled:

City Labs

Widetronix

Zeno Power Systems

Beijing Betavolt

Arkenlight

Rosatom

**Key Questions Answered:**

1. How big is the global Radioisotope Piezoelectric Generators market?
2. What is the demand of the global Radioisotope Piezoelectric Generators market?
3. What is the year over year growth of the global Radioisotope Piezoelectric Generators market?
4. What is the production and production value of the global Radioisotope Piezoelectric Generators market?
5. Who are the key producers in the global Radioisotope Piezoelectric Generators market?
6. What are the growth factors driving the market demand?

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