

Global Betavoltaic Cells 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 Betavoltaic Cells market size was valued at US\$ 12.35 million in 2025 and is forecast to a readjusted size of US\$ 54.08 million by 2032 with a CAGR of 23.2% during review period.

In 2025, global Betavoltaic Cell output reached about 400 MW and global capacity of around 500 MW. The average price is about USD 30 per KW, with gross margins near 48%. A Betavoltaic Cell is a long-life nuclear energy conversion device that generates electricity by capturing beta particles (high-energy electrons) emitted from a radioactive isotope and converting their kinetic energy directly into electrical power using semiconductor junctions, similar to the photovoltaic effect in solar cells but driven by radiation instead of sunlight. Typical radioisotopes include Nickel-63, Tritium, and Promethium-147, while semiconductor materials may include silicon, silicon carbide (SiC), gallium nitride (GaN), diamond, or other radiation-resistant materials. The supply chain begins upstream with radioisotope production through nuclear reactors, isotope enrichment facilities, and radioisotope processing companies, alongside semiconductor material suppliers providing wafers and radiation-hardened semiconductor substrates. Midstream activities involve betavoltaic cell design, semiconductor fabrication, isotope encapsulation, microbattery assembly, radiation shielding integration, and quality certification. Downstream, the cells are incorporated into ultra-long-life power systems for aerospace, defense, medical implants, remote sensors, industrial monitoring devices, Internet of Things (IoT) nodes, deep-space exploration equipment, underwater systems, and critical infrastructure monitoring applications where battery replacement is difficult or impossible. The key value proposition of betavoltaic cells is their ability to provide microwatt-to-milliwatt power continuously for 10?50 years or more without recharging or maintenance.

This report is a detailed and comprehensive analysis for global Betavoltaic Cells 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 Betavoltaic Cells market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Betavoltaic Cells market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Betavoltaic Cells market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Betavoltaic Cells market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 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 Betavoltaic Cells

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 Betavoltaic Cells 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, BetaBatt, Arkenlight, Beijing Beta Volt New Energy, etc.

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

Market Segmentation

Betavoltaic Cells 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

Nickel-63 Betavoltaic Cells

Hydrogen-3 Betavoltaic Cells

Promethium-147 Betavoltaic Cells

Strontium-90 Betavoltaic Cells

Carbon-14 Betavoltaic Cells

Market segment by Operational Lifetime

30 Years

Market segment by Application

Aerospace

Military

Industrial

Healthcare

Others

Major players covered

City Labs

Widetronix

BetaBatt

Arkenlight

Beijing Beta Volt New Energy

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 Betavoltaic Cells product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Betavoltaic Cells, with price, sales quantity, revenue, and global market share of Betavoltaic Cells from 2021 to

2026.

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

Chapter 4, the Betavoltaic Cells 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 Betavoltaic Cells 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 Betavoltaic Cells.

Chapter 14 and 15, to describe Betavoltaic Cells sales channel, distributors, customers, research findings and conclusion.

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