

# Global Power IC for Energy Harvesting Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Power IC for Energy Harvesting market size is expected to reach \$ 639 million by 2032, rising at a market growth of 14.0% CAGR during the forecast period (2026-2032).

Power ICs for energy harvesting are ultra low power power management devices designed for ambient micro energy supply scenarios. Their core task is to complete cold start, maximum power point tracking, boost or buck conversion, energy storage charging, power path switching, voltage protection, and regulated output under conditions where input power from photovoltaic, thermoelectric, radio frequency, and other sources is highly unstable and extremely limited. This allows low power endpoints such as sensor nodes, electronic shelf labels, building automation terminals, industrial monitoring devices, wearables, and asset trackers to reduce dependence on frequent primary battery replacement or wired power. The mainstream technology paradigm has evolved from single solar chargers to architectures that manage multiple energy sources or multiple storage objects. These ICs support not only photovoltaic and thermoelectric inputs, but also RF harvesting and a wide range of storage elements including batteries, supercapacitors, thin film batteries, and conventional capacitors. Some devices further integrate multiple outputs, power gating, LDOs, programmable MPPT, and battery protection functions, enabling relatively high conversion efficiency from microwatt to milliwatt input levels while adapting to rapidly changing light, temperature gradient, and RF conditions through different MPPT methods. Typical customers include wireless sensor manufacturers, industrial IoT device suppliers, smart building solution providers, wearable and medical terminal developers, and system integrators seeking to reduce maintenance and cabling costs. Standard PMIC chips remain the dominant delivery form, usually accompanied by evaluation boards, reference designs, and application support. The business model is centered on

standard device sales and is extending toward Ambient IoT, maintenance free wireless sensing, and green electronic systems. The core value of this product category lies in converting previously scattered and non continuously usable ambient energy into commercially usable power capability.

From a product evolution perspective, power ICs for energy harvesting are no longer merely miniature solar chargers in the traditional sense. They are becoming system level foundational platforms that integrate harvesting, storage, power delivery, and protection within a single ultra low power power management architecture. The core points of competition have shifted from simply achieving boost conversion or charging to delivering a balanced combination of extremely low cold start thresholds, nanoamp class quiescent current, maximum power point tracking algorithms, storage compatibility, and multi output power management. Vendors such as e-peas, Nexperia, ADI, TI, and ST are using approaches including configurable MPPT, embedded hill climbing algorithms, fractional open circuit voltage methods, hybrid storage, and power path management. The common goal is to extract as much usable energy as possible in real environments where light variation, temperature differences, and pulsed loads coexist, while preventing the source from collapsing. This means the barrier to entry is not limited to analog power design itself, but extends to system level understanding of source behavior, storage characteristics, and end load profiles. As a result, future high value products are likely to remain concentrated among companies that combine high integration, strong control algorithms, and scenario specific optimization capabilities. Competition therefore is unlikely to become a simple price war. Instead, it will center on who can deliver stable and repeatable solutions under lower illumination, smaller harvesters, more complex storage configurations, and longer maintenance free operating cycles. For end customers, the real appeal is not a single standout specification, but whether the IC can continuously provide usable power in a real deployed system while reducing peripheral component count, debugging difficulty, and field maintenance frequency.

From a commercialization perspective, the clearest demand center for this product category is not the traditional high power supply market, but the edge node market where unit power consumption is extremely low but deployment volume is massive. Official pages from ST, TI, ADI, Nisshinbo, and Infineon consistently position wireless sensors, building automation, remote monitoring, smart lighting, industrial control, wearables, and asset tracking as major use cases. This shows that the industry growth logic does not rely on a high price per chip, but on a growing number of end applications willing to replace primary batteries or part of their cabling cost with ambient energy. As electronic shelf labels, industrial condition monitoring, smart building sensing networks,

and medical and health monitoring devices continue to expand, end customers will place greater emphasis on low maintenance, long lifetime, compact size, and green power delivery. In many retrofit building and distributed industrial scenarios, the total cost of ownership for wiring and battery replacement is far higher than the chip itself. Therefore, as long as an energy harvesting solution can significantly extend maintenance intervals, the value of the IC is magnified by system level savings. What will truly drive volume growth is not only further improvement in chip level parameters, but also the maturity of evaluation boards, reference designs, modular solutions, and wireless platform integration that lowers the barrier from validation to mass production. This is also why companies such as Powercast in RF harvesting and e-peas in Ambient IoT place solution completeness and scenario fit at the center of their product narrative. The market is gradually moving from selling a chip to selling a reusable low power self powered platform for integrators.

From the perspective of regional structure and policy environment, the currently verifiable vendors are mainly distributed across Europe, the United States, Japan, and China. This indicates that the sector is still led by regions with strong industrial systems and advanced analog design capabilities, while opportunities for localization and regional supply chain reinforcement are beginning to emerge. European vendors emphasize reducing battery replacement and lowering carbon footprint. U.S. vendors are strong in ultra low power and multi scenario platformization. Japanese vendors are more specialized in indoor light and compact wireless nodes. Chinese vendors are beginning to commercialize products around micro light charging and local IoT applications. More importantly, the external policy environment is strengthening the long term attractiveness of these solutions. The EU Battery Regulation is embedding low carbon footprint, reduced raw material use, and higher recycling efficiency into the regulatory framework. The United States is also moving forward on battery recycling and producer responsibility systems, while China continues to reinforce decarbonization and green manufacturing. In this context, any power solution that can reduce primary battery consumption, extend maintenance free operating periods, and cut wiring and replacement costs is more likely to receive customer budgets and project approval. Looking ahead, as Ambient IoT, green buildings, industrial digitalization, and sustainable electronic systems continue to advance, power ICs for energy harvesting may remain smaller in absolute market size than general purpose PMICs, but their growth potential, value added, and barriers to entry are likely to be clearly higher than many traditional long tail power categories. As regulation and ESG targets increasingly demand longer device life, fewer battery changes, and easier recycling, these ICs are evolving from optional energy saving parts into key foundational devices in low power endpoint systems. Future leadership will depend more on whether vendors can

translate policy direction, system cost, and device performance into scalable product architectures.

This report studies the global Power IC for Energy Harvesting production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power IC for Energy Harvesting 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 Power IC for Energy Harvesting that contribute to its increasing demand across many markets.

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

Global Power IC for Energy Harvesting total production and demand, 2021-2032, (K Units)

Global Power IC for Energy Harvesting total production value, 2021-2032, (USD Million)

Global Power IC for Energy Harvesting production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Power IC for Energy Harvesting consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Power IC for Energy Harvesting domestic production, consumption, key domestic manufacturers and share

Global Power IC for Energy Harvesting production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Power IC for Energy Harvesting production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Power IC for Energy Harvesting production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Power IC for Energy Harvesting 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 Asahi Kasei Microdevices Corporation, Analog Devices, Inc., e-peas SA, STMicroelectronics N.V., Texas Instruments Incorporated, Nexperia B.V., EM Microelectronic-Marin SA, Powercast Corporation, Nisshinbo Micro Devices Inc., ROHM Co., Ltd., 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 Power IC for Energy Harvesting market

### **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 Power IC for Energy Harvesting Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Power IC for Energy Harvesting Market, Segmentation by Type:

868MHz

915Mhz

2.45GHz

Others

Global Power IC for Energy Harvesting Market, Segmentation by Energy Source Type:

Photovoltaic Harvesting

Thermoelectric Harvesting

RF Harvesting

Other

Global Power IC for Energy Harvesting Market, Segmentation by Storage Object Type:

Supercapacitor Type

Rechargeable Battery Type

Other

Global Power IC for Energy Harvesting Market, Segmentation by Application:

Piezo Harvesting

Home Automation

Smart Agriculture

Industrial Monitoring

Others

Companies Profiled:

Asahi Kasei Microdevices Corporation

Analog Devices, Inc.

e-peas SA

STMicroelectronics N.V.

Texas Instruments Incorporated

Nexperia B.V.

EM Microelectronic-Marin SA

Powercast Corporation

Nisshinbo Micro Devices Inc.

ROHM Co., Ltd.

Infineon Technologies AG

Ningbo Madeit Semiconductor Technology Co., Ltd.

### **Key Questions Answered:**

1. How big is the global Power IC for Energy Harvesting market?
2. What is the demand of the global Power IC for Energy Harvesting market?
3. What is the year over year growth of the global Power IC for Energy Harvesting market?
4. What is the production and production value of the global Power IC for Energy Harvesting market?
5. Who are the key producers in the global Power IC for Energy Harvesting market?
6. What are the growth factors driving the market demand?

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