

# **Global Energy Harvesting System Market Size Study & Forecast, by Technology (Light Energy Harvesting, Vibration Energy Harvesting, Thermal Energy Harvesting, Radio Frequency Energy Harvesting) by Application (Consumer Electronics, Building & Home Automation, Transportation, Industrial, Others) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Energy Harvesting System Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Energy harvesting systems, also known as energy scavenging or power harvesting systems, are devices or systems that capture and convert ambient energy from the environment into usable electrical power. This harvested energy can then be used to power small electronic devices or charge batteries for later use. Moreover, the rising demand for energy-efficient solutions, government initiatives and policies supporting renewable energy, expansion of wireless sensor networks, and rise in demand for light energy harvesting are anticipated to create a lucrative demand for the market during the forecast period 2023-2030.

The development of smart cities and infrastructure projects, aimed at improving urban sustainability and efficiency, is driving the adoption of energy harvesting systems. These systems can power various smart city components such as streetlights, traffic monitoring systems, and environmental sensors, contributing to energy savings and resource optimization. In January 2020, UK-based Planet Smart City completed its new round of capital fundraising. The firm received ?24 million (USD 25.56 million) in funding from current and new investors, bringing the total amount raised since its founding to ?100 million (USD 106.51 million). Planet Smart City's unique offering is revolutionising

the worldwide affordable housing industry. Also, according to the Indian Brand Equity Foundation, in India the allocated investments for the 'Smart City Mission' in 2020 were USD 28.31 billion. In 2020, 5,331 projects totalling USD 24.31 billion were offered, accounting for 86 per cent of overall investments. As of 2020, work orders have been issued for 4,540 projects valued at USD 19.33 billion, accounting for 68 per cent of the total, while 2,122 projects totalling USD 4.83 billion have been completed, accounting for 17 per cent of the total. Moreover, the advancements in energy harvesting technologies and the proliferation of Internet of things (IoT) devices are anticipated to create a lucrative opportunity for the market. However, the high initial cost of energy harvesting systems stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Energy Harvesting System Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing demand for IoT devices, government initiatives and incentives, and growing awareness of energy conservation and sustainability among consumers, businesses, and governments is fueling the demand for energy harvesting systems. Whereas, the Asia Pacific is expected to grow with the fastest growth rate during the forecast period, owing to factors such as the rising energy demand, government initiatives and policies, growing awareness of sustainability, and growing infrastructure development projects.

Major market players included in this report are:

Cedrat Technologies SA

Mide Technology Corporation

Tekceleo, Analog Devices

Xidas

Advanced Linear Devices Inc.

Cymbet Corporation

Physik Instrumente (PI) GmbH & Co. KG

ZF Friedrichshafen AG

Powercast Corporation

GreenPeak Technologies

Recent Developments in the Market:

In September 2022, E-Peas SA and Energous Corporation have introduced a cutting-edge Wireless Energy Harvesting Evaluation Kit tailored for a variety of applications including smart buildings, smart homes, industrial IoT, medical devices, and asset trackers for retail and warehouses. The kit showcases the companies' latest technologies, featuring Energous' 1W WattUp PowerBridge transmitter. This transmitter provides an innovative over-the-air solution, empowering device manufacturers to seamlessly integrate wireless power and energy harvesting into a diverse array of connected devices.

Global Energy Harvesting System Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Technology, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define the market sizes of different segments & countries

in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Light Energy Harvesting

Vibration Energy Harvesting

Thermal Energy Harvesting

Radio Frequency Energy Harvesting

By Application:

Consumer Electronics

Building & Home Automation

Transportation

Industrial

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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