

# **Global Energy Harvesting System Market by End-use System (Wireless switching system, Wireless HVAC system, Wireless sensing and telematics system, Tire pressure monitoring system and others), Technology (Light energy harvesting, Vibration energy harvesting, Radio frequency energy harvesting, Thermal energy harvesting), Component (Transducers, Power Management Integrated Circuits and Secondary Batteries), Application (Building and home automation, Consumer electronics, Industrial, Transportation, Security), Regional Forecasts 2021-2027**

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## **Abstracts**

Global Energy Harvesting System Market is valued approximately at USD 0.43 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 8.4% over the forecast period 2021-2027. Energy harvesting is a method of extracting energy produced or derived from unconventional energy sources. An electrical circuit, sensing components (sensors and transducers), and a storage unit compensate an energy harvesting system. The energy harvesting system charges the transducer with unconventional energy sources, which is then transformed to electricity and stored in the battery unit. A supplementary electronic circuit manages the produced power and protects the storage unit and principal circuitry in the system. The market is driven by rise in government investment for green energy and rising adoption of wireless sensor networks equipped with energy harvesting systems. For instance, as per India Branch

Equity foundation, Between April 2000 and December 2020, FDI inflow into India's non-conventional energy industry reached USD 9.83 billion, according to data published by the Department for Promotion of Industry and Internal Trade (DPIIT). Since 2014, more than 42 billion dollars has been invested in India's renewable energy sector. In 2018, the country's new renewable energy investment was USD 11.1 billion. However, limitations of remotely installed networking modules may impede market growth over the forecast period of 2021-2027.

Geographically, Europe is dominating the market in terms of market shares due to favorable government policies. Furthermore, the European Commission is supporting the regional market growth by providing incentives and investing in EHS and storage unit R&D. however, North America is expected to register the fastest growth due to high saturation of vibration energy harvesting systems technology in industrial sectors including healthcare, security, consumer electronics, transportation, and others.

Major market player included in this report are:

EnOcean GmbH  
Schneider Electric  
MAHLE GmbH  
Bionic Power Inc.  
Vltree Power, Inc.  
Texas Instruments Incorporated  
Analog Devices Inc.  
Powercast Corp.  
STMicroelectronics  
ABB Group

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

**By Components:**

Transducers

Power management integrated circuits (PMIC)

Secondary batteries

**By Technology:**

Light energy harvesting

Vibration energy harvesting

Radio frequency energy harvesting

Thermal energy harvesting

**By Application:**

Building and home automation

Consumer electronics

Industrial

Transportation

Security

**By End use system:**

Wireless switching system

Wireless HVAC system

Wireless sensing and telematics system

Tire pressure monitoring system

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  
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019  
Base year – 2020  
Forecast period – 2021 to 2027.

Target Audience of the Global Energy Harvesting System Market in Market Study:

Key Consulting Companies & Advisors  
Large, medium-sized, and small enterprises  
Venture capitalists  
Value-Added Resellers (VARs)  
Third-party knowledge providers  
Investment bankers  
Investors

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