

# **Energy Harvesting Market - Global Forecast & Analysis (2012 - 2017) By Technology (Light, Thermoelectric, Vibration, Electromagnetic, Fluid & Others), Application (Aerospace & Military, Consumer Electronics, Building & Home Automation, Wireless Sensor Networks, Industrial/Manufacturing, Bicycle Dynamo) & Geography.**

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## **Abstracts**

Energy harvesting is the process of collecting the ambient energy from the surroundings like light, heat, vibration, and electromagnetic radiation, and converting it into usable electrical energy for power portable electrical devices; this can be done without using the batteries. This technology efficiently collects the ambient energy that we usually discard and merits a lot of attention. It is also known as energy scavenging or power scavenging. Energy harvesting market covers the various sources of energy harvesting that are used by the energy harvesting technologies.

This report describes the different energy harvesting technologies such as light energy harvesting, thermoelectric, vibration, electromagnetic, fluid, motion, and other types like RF and bio energy harvesting. In the overall market for energy harvesting, light harvesting contributes for the largest percentage share, due to the availability of huge source of solar energy. This report forecasts the energy harvesting technologies market from 2012 to 2017.

This report also covers the global energy harvesting applications market, which includes consumer electronics, industrial, building and home automation, military, aerospace, wireless sensor network (WSN), automotive, and bicycle dynamo. Like technology market, this report also provides the market forecast of energy harvesting applications

from 2012 to 2017. The market scenario at present is such that consumer applications hold the largest percentage share. Wireless sensor network covers the market forecast of smart buildings wireless sensor networks and industrial wireless sensor network.

This report deals with all the driving factors, restraints, and opportunities for the energy harvesting technology market, which is helpful in identifying trends and key success factors for the industry. The report also profiles the major companies that are active in the field of energy harvesting along with their product offerings, strategy, financial details, developments, and their competitive landscape. It also highlights the winning imperatives and burning issues pertaining to the energy harvesting industry.

This report describes the activities and projects that are being carried out by the U.S. government, Dept. of Energy (DOE) and European associations in the field of energy harvesting. This report also analyzes the value chain of energy harvesting market in detail with players pertaining to every block of value chain.

The global energy harvesting market is expected to reach \$1894.87 million by 2017 at an estimated CAGR of 24.31%. Europe is the top region in global energy harvesting market; followed by North America, APAC, and Rest of the World (ROW). In North America, the U.S. shares the largest percentage, whereas in APAC, Japan shares the largest percentage in energy harvesting market.

## **Scope of the Report**

This research report categorizes the global energy harvesting market; based on technology and applications; it also covers the forecasted revenue and future applications of global energy harvesting technology market. The report throws light on various projects that are being funded by government and military administration across North America and Europe.

### **On The Basis of Technology**

Energy harvesting technology market is categorized into light energy harvesting, thermoelectric, vibration, electromagnetic, fluid, motion, and other types like RF and bio energy harvesting. Light energy harvesting covers usage of solar energy, infrared (IR) and UV radiation. Thermoelectric energy harvesting covers the harvesting using thermopile and thermo harvester. Electromagnetic energy harvesting covers the near field and far field harvesting. Fluid energy harvesting covers the harvesting using water,

gas and wind.

#### On The Basis of Application Areas

Energy harvesting applications market is categorized into consumer electronics, industrial, building and home automation, military, aerospace, wireless sensor network (WSN), automotive and bicycle dynamo. Consumer electronics covers watch, mobile, mp3 players, and other low power devices.

#### On The Basis of Geography

Geographical analysis covers North America, Europe, Asia-Pacific, and ROW.

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