Thermoelectric Generators Market by End User, by Temperature (<80 °C, 80-500 °C, >500 °C), by Wattage (<10 W, 10-1 kW, >1 kW), by Source, by Material - Global Forecast & Analysis to 2020

Description:

The thermoelectric generators market is projected to grow at a CAGR of 13.8% during the forecast period (2015-2020). This report includes the financial analysis of key market players, historical market analysis, technological trends, environment analysis of the market, and industry overview, which includes supply chain analysis, value chain analysis, and PEST analysis of the market. The report also includes the key drivers and restraints which affect the growth of the market, along with the degree of their impact.

The global thermoelectric generators market is classified into six major segments, namely, end user, source, temperature, wattage, region, and material. The end-user segment is further categorized into various sectors that use thermoelectric generators, such as automotive, aerospace & defense, industrial, and self-powered sensors. The sources segmentation comprises waste heat recovery, energy harvesting, direct power generation, and co-generation. Temperature segment is further divided into <80 °C, 80-500 °C, and >500 °C. Wattage is further classified into <10 W, 10-1 kW, and >1 kW. Materials included in the study are Bi-Te, Pb-Te, and others.

Increasing fuel prices, demand for carbon free society, and requirement of sustainable energy solutions are the factors that are likely to compel the growth of this market. On the other hand, lack of knowledge about the thermoelectric generators technology among the users in private sectors pose a challenge to the market growth.

The emerging markets in the countries such as Germany, India, and China will provide huge opportunities for thermoelectric generators manufacturers. The rising level of environmental pollution in China and India due to carbon emissions from the vehicles and manufacturing plants are offering a huge opportunity for the manufacturers to tap these markets. Increased number of research & development centers in Germany will also push the demand for thermoelectric generators.

The key players in the thermoelectric generators market include Gentherm Inc. (U.S.), II-VI Incorporated (U.S.), Ferrotec Corporation (Japan), Laird Plc. (U.K.), and Komatsu Limited (Japan). Companies are investing in new technologies, which will increase the efficiency and application areas of thermoelectric generators. Strategic contracts, joint ventures, partnerships, and expansions are some of the growth strategies adopted by key players in the thermoelectric generators market.

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