Global Thermoelectric Devices Market - Analysis by Type, by Application - Growth Trends and Forecasts (2016 - 2021)

Description: The Global Thermoelectric Devices Market is expected to grow at a CAGR of XX percent and reach USD XX Million in 2020 form USD XX Million in 2015.

A thermoelectric device operates on the thermoelectric effect, and directly converts a temperature difference to an electric voltage (Seebeck Effect) or vice versa (Peltier Effect). Although thermoelectric effect was discovered in 1821 by Thomas Seebeck, commercialization of this phenomena was sluggish because of inefficient thermoelectric materials. As of today, thermoelectric devices are increasingly seeing application in sensors and refrigeration industry. Technological advances in Nano science has made atomic restructuring possible which has given rise to a new generation of thermoelectric materials; for example, Bismuth Telluride, half Heusler materials and Skutterudites show pretty good thermoelectric effect at room temperature.

Thermoelectric devices hold various advantages. The lack moving parts, which in turn means that the maintenance cost of these devices are very low or negligible. Thermoelectric coolers which operate on the Peltier Effect have various advantages over vapour-compression refrigerators like the lack of circulating fluid (which in turn means no leaks) and a flexibility in shape. Thermoelectric devices also find application across a variety of domains such as in consumer products, products for scientific applications etc. The major factors hindering the growth of the thermoelectric devices market are their high cost and low efficiency. The market still has to overcome the inefficiency hurdle on a commercial scale to make the thermoelectric materials an attractive proposition. Active research and development activity going on around the world are aimed at countering these restraints. Nanotechnology is also helping this technology achieve breakthroughs. Thermoelectric devices have the potential to find wide application in waste heat recovery.

This report segments the global thermoelectric devices market based on the type of application of these devices into thermoelectric generator and thermoelectric cooler/heater markets. The market has also been segmented based on the application of thermoelectric devices into automobile, defence & aerospace, residential, industrial and others.

A market segmentation based on geography divides the market into North America, Europe, Asia-Pacific, and Rest of the World.

Some of the companies active in the global thermoelectric devices market include Alphabet Energy, Phononic Devices, Thermo Electric Company, Inc. and Marlow, Inc. among others.

Please note: As this product is updated at the time of order, dispatch will be 72 hours from the date the order and full payment is received.

Contents: 1. Introduction 1.1 Study Deliverables 1.2 Market Definition 1.3 Base Currency 1.4 Review and Forecast Period Years 1.5 General Study Assumptions 2. Research Methodology 2.1 Introduction
2.2 Analysis Methodology
2.3 Econometric Forecast Model
2.4 Research Assumptions
3. Executive Summary
4. Key Inferences
5. Market Overview and Industry Trends
  5.1 Current Market Scenario
  5.2 Technology Overview
  5.3 Recent Developments
  5.4 Industry Value-Chain Analysis
  5.5 Product Life-Cycle Analysis
  5.6 Product Benchmarking
  5.7 Investment Analysis
  5.8 Porters Five Forces
    5.8.1 Bargaining Power of Suppliers
    5.8.2 Bargaining Power of Consumers
    5.8.3 Threat of New Entrants
    5.8.4 Threat of Substitute Products and Services
    5.8.5 Competitive Rivalry within the Industry
6. Drivers, Restraints and Opportunities Analysis
  6.1 Drivers
    6.1.1 Advantages of Thermoelectric Coolers Over Vapour-Compression Refrigerators
    6.1.2 Lack of Moving Parts Providing No-Maintenance Components
    6.1.3 Potential Application Across Multiple Domains
  6.2 Restraints
    6.2.1 High Cost
    6.2.2 Low Efficiency
  6.3 Opportunities
    6.3.1 Industrial Waste Heat Recovery Applications
    6.3.2 High Research & Development Activity
    6.3.3 Application Alongside/as Replacement for Solar Systems
7. Global Thermoelectric Devices Market, By Type
7.1 Thermoelectric Generator
7.2 Thermoelectric Cooler/Heater
8. Global Thermoelectric Devices Market, By Application
8.1 Automobile
8.2 Defence & Aerospace
8.3 Residential
8.4 Industrial
8.5 Others
9. Global Thermoelectric Devices Market, By Geography
9.1 North America
9.1.1 Overview
9.1.2 Major Countries
9.1.2.1 USA
9.1.2.2 Others
9.2 Europe
9.2.1 Overview
9.2.2 Major Countries
9.2.2.1 Germany
9.2.2.2 Others
9.3 Asia-Pacific
9.3.1 Overview
9.3.2 Major Countries
9.3.2.1 Japan
9.3.2.2 South Korea
9.3.2.3 Others
9.4 Rest of the World
10. Competitive Landscape
10.1 Mergers & Acquisitions
10.2 Joint Ventures, Collaborations and Agreements
10.3 Market Share Analysis
11. Key Company Analysis
11.1 Alphabet Energy
11.2 Evident Thermoelectrics
11.3 Laird
11.4 Marlow, Inc.
11.5 MTPV
11.6 Phononic Devices
11.7 RedHawk Energy Systems LLC
11.8 Silicium Energy
11.9 Teledyne Energy Systems, Inc.
11.10 Thermo Electric Company, Inc.
12. Appendix
12.1 Contact Us
12.2 Disclaimer

Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Global Thermoelectric Devices Market - Analysis by Type, by Application - Growth Trends and Forecasts (2016 - 2021)
Web Address: http://www.researchandmarkets.com/reports/3842800/
Office Code: SC2GXZJC

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Format Description</th>
<th>Single User</th>
<th>1 - 5 Users</th>
<th>Enterprisewide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF)</td>
<td>USD 3825</td>
<td>USD 4050</td>
<td>USD 7875</td>
</tr>
<tr>
<td><strong>USD 4250 - Until 31st Mar 2017</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>USD 4500 - Until 31st Mar 2017</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>USD 8750 - Until 31st Mar 2017</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title:</td>
<td>Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof [ ]</td>
</tr>
<tr>
<td>First Name:</td>
<td></td>
</tr>
<tr>
<td>Last Name:</td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: 

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World