

# Global Thermoelectric Modules Market Analysis and Forecast 2024-2030

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### **Abstracts**

#### Summary

A thermoelectric (TE) module, also called a thermoelectric cooler or Peltier cooler, is a semiconductor-based electronic component that functions as a small heat pump. By applying a low voltage DC power source to a TEM, heat will be moved through the module from one side to the other. One module face, therefore, will be cooled while the opposite face simultaneously is heated. It is important to note that this phenomenon is fully reversible whereby a change in the polarity of the applied DC voltage will cause heat to be moved in the opposite direction. Consequently, a TEM may be used for both cooling and heating in a given application.

According to APO Research, The global Thermoelectric Modules market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for Thermoelectric Modules is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Thermoelectric Modules is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Thermoelectric Modules is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.



Europe market for Thermoelectric Modules is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Thermoelectric Modules include Ferrotec, Laird, KELK, Marlow, RMT, CUI, Hi-Z, Tellurex and Crystal, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

In terms of production side, this report researches the Thermoelectric Modules production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Thermoelectric Modules by region (region level and country level), by Company, by Type and by Application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Thermoelectric Modules, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Thermoelectric Modules, also provides the consumption of main regions and countries. Of the upcoming market potential for Thermoelectric Modules, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Thermoelectric Modules sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Thermoelectric Modules market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for



Thermoelectric Modules sales, projected growth trends, production technology, application and end-user industry.

Thermoelectric Modules segment by Company

| Ferrotec                               |
|--|
| Laird                                  |
| KELK                                   |
| Marlow                                 |
| RMT                                    |
| CUI                                    |
| Hi-Z                                   |
| Tellurex                               |
| Crystal                                |
| P&N Tech                               |
| Thermonamic Electronics                |
| Kryo Therm                             |
| Wellen Tech                            |
| AMS Technologies                       |
| Thermoelectric Modules segment by Type |

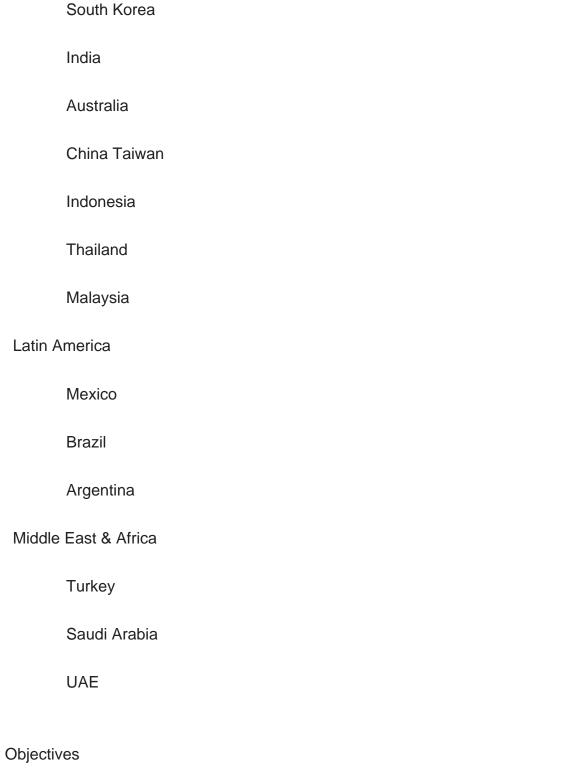
Single Stage Module

Multistage Module



## Thermoelectric Modules segment by Application Automotive **Electronics** Biomedical Others Thermoelectric Modules segment by Region North America U.S. Canada Europe Germany France U.K. Italy Russia Asia-Pacific China Japan





## Study Objectives

- 1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
- 2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.



- 3. To split the breakdown data by regions, type, manufacturers, and Application.
- 4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
- 5. To identify significant trends, drivers, influence factors in global and regions.
- 6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

#### Reasons to Buy This Report

- 1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Thermoelectric Modules market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
- 2. This report will help stakeholders to understand the global industry status and trends of Thermoelectric Modules and provides them with information on key market drivers, restraints, challenges, and opportunities.
- 3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
- 4. This report stays updated with novel technology integration, features, and the latest developments in the market.
- 5. This report helps stakeholders to gain insights into which regions to target globally.
- 6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Thermoelectric Modules.
- 7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.



#### **Chapter Outline**

Chapter 1: Introduces the report scope of the report, executive summary of different market segments (by type and by application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: Thermoelectric Modules production/output of global and key producers (regions/countries). It provides a quantitative analysis of the production, and development potential of each producer in the next six years.

Chapter 4: Sales (consumption), revenue of Thermoelectric Modules in global, regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space of each country in the world.

Chapter 5: Detailed analysis of Thermoelectric Modules manufacturers competitive landscape, price, sales, revenue, market share and industry ranking, latest development plan, merger, and acquisition information, etc.

Chapter 6: Provides the analysis of various market segments by type, covering the sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7: Provides the analysis of various market segments by application, covering the sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8: Provides profiles of key manufacturers, introducing the basic situation of the main companies in the market in detail, including product descriptions and specifications, Thermoelectric Modules sales, revenue, price, gross margin, and recent development, etc.



Chapter 9: North America (US & Canada) by type, by application and by country, sales, and revenue for each segment.

Chapter 10: Europe by type, by application and by country, sales, and revenue for each segment.

Chapter 11: China by type, by application, sales, and revenue for each segment.

Chapter 12: Asia (Excluding China) by type, by application and by region, sales, and revenue for each segment.

Chapter 13: Middle East, Africa, Latin America by type, by application and by country, sales, and revenue for each segment.

Chapter 14: Analysis of industrial chain, sales channel, key raw materials, distributors and customers.

Chapter 15: The main concluding insights of the report.



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