

Global Thermoelectric Modules Market Size study, By Model (Single Stage, Multi Stage), By Type (Bulk Thermoelectric Modules, Micro Thermoelectric Modules, Thin-Film Thermoelectric Modules), By Functionality (General Purpose, Deep Cooling), By Offering (Hardware, Services), By End-Use Application (Consumer Electronics, Industrial, Telecommunications, Automotive, Medical & Laboratories, Aerospace & Defense, Oil & Gas and Mining), and Regional Forecasts 2022-2028

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Abstracts

Global Thermoelectric Modules Market is valued approximately USD XX million in 2021 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2022-2028.

The thermoelectric module is also known as a Peltier module that is a semiconductor-based electronic device that functions like a small heat pump. This module is used to transfer heat from one side of the device to the other. Additionally, these modules can instantly cool and warm an object by creating temperature variances. The rising benefits of TEMs over conventional systems, increasing demand for electric and luxury vehicles, coupled with the growing trend of automation in industrial, commercial, and residential sectors are primary factors that are bolstering the market demand across the globe. For instance, electric car sales reached an account of 3 million in 2020, more than 40% from 2019. Moreover, for 2030, the Net Zero Emissions by 2050 Scenario projects 300 million electric cars on the road and recorded with above 60% of new car sales, in

comparison of only 4.6% in 2020. Consequentially, increasing use for an electric vehicle is surging the demand for thermoelectric modules, thus, in turn, augments the market growth. However, high costs compared to traditional heating/cooling systems and inherent disadvantages and design complexities impede the growth of the market over the forecast period of 2022-2028. Also, the development of TEMs for new application areas and rising demand for thermoelectric coolers for storage and transport is anticipated to act as a catalyzing factor for the market demand during the forecast period.

The key regions considered for the global Thermoelectric Modules Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is the leading region across the world in terms of market share owing to surging demand for HVAC devices and commercial refrigeration, along with the introduction of novel technologies. Whereas, Asia-Pacific is anticipated to exhibit the highest CAGR over the forecast period 2022-2028. Factors such as rising investments in new vehicle technologies like electric vehicles, LiDAR, and autonomous vehicles, as well as penetration of the 5G technology, would create lucrative growth prospects for the Thermoelectric Modules Market across the Asia-Pacific region.

Major market players included in this report are:

Ferrotec Holdings Corporation

II-VI Incorporated

Laird Thermal Systems Inc.

Guangdong Fuxin Technology Co. Ltd.

Phononic Inc.

INHECO Industrial Heating & Cooling GmbH

Kyocera Corporation

Align Sourcing Inc.

HiTECH Technologies Inc.

Thermonamic Electronics (Jiangxi) Corp., Ltd.

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 Model:

Single Stage

Multi Stage

By Type:

Bulk Thermoelectric Modules

Micro Thermoelectric Modules

Thin-Film Thermoelectric Modules

By Functionality:

General Purpose

Deep Cooling

By Offering:

Hardware

Services

By End-Use Application:

Consumer Electronics

Industrial

Telecommunications

Automotive

Medical & Laboratories

Aerospace & Defense

Oil & Gas and Mining

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, 2020
Base year – 2021
Forecast period – 2022 to 2028

Target Audience of the Global Thermoelectric Modules 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

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2028 (USD Million)
 - 1.2.1. Global Thermoelectric Modules Market, by Region, 2020-2028 (USD Million)
 - 1.2.2. Global Thermoelectric Modules Market, by Model, 2020-2028 (USD Million)
 - 1.2.3. Global Thermoelectric Modules Market, by Type, 2020-2028 (USD Million)
 - 1.2.4. Global Thermoelectric Modules Market, by Functionality, 2020-2028 (USD Million)
 - 1.2.5. Global Thermoelectric Modules Market, by Offering, 2020-2028 (USD Million)
 - 1.2.6. Global Thermoelectric Modules Market, by End-Use Application, 2020-2028 (USD Million)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL THERMOELECTRIC MODULES MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Scope of the Study
 - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL THERMOELECTRIC MODULES MARKET DYNAMICS

- 3.1. Thermoelectric Modules Market Impact Analysis (2020-2028)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Growth of electric & luxury vehicles increasing demand for TEMs
 - 3.1.1.2. Rising use of TEMs over conventional systems
 - 3.1.2. Market Challenges
 - 3.1.2.1. High costs compared to traditional heating/cooling systems
 - 3.1.2.2. Inherent disadvantages and design complexities
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Development of TEMs for new application areas

3.1.3.2. Rising demand for thermoelectric coolers for storage and transport

CHAPTER 4. GLOBAL THERMOELECTRIC MODULES MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.1.6. Futuristic Approach to Porter's 5 Force Model (2018-2028)

4.2. PEST Analysis

4.2.1. Political

4.2.2. Economical

4.2.3. Social

4.2.4. Technological

4.3. Investment Adoption Model

4.4. Analyst Recommendation & Conclusion

4.5. Top investment opportunity

4.6. Top winning strategies

CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT

5.1.1. Assessment of the overall impact of COVID-19 on the industry

5.1.2. Pre COVID-19 and post COVID-19 market scenario

CHAPTER 6. GLOBAL THERMOELECTRIC MODULES MARKET, BY MODEL

6.1. Market Snapshot

6.2. Global Thermoelectric Modules Market by Model, Performance - Potential Analysis

6.3. Global Thermoelectric Modules Market Estimates & Forecasts by Model 2018-2028 (USD Million)

6.4. Thermoelectric Modules Market, Sub Segment Analysis

6.4.1. Single Stage

6.4.2. Multi Stage

CHAPTER 7. GLOBAL THERMOELECTRIC MODULES MARKET, BY TYPE

- 7.1. Market Snapshot
- 7.2. Global Thermoelectric Modules Market by Type, Performance - Potential Analysis
- 7.3. Global Thermoelectric Modules Market Estimates & Forecasts by Type 2018-2028 (USD Million)
- 7.4. Thermoelectric Modules Market, Sub Segment Analysis
 - 7.4.1. Bulk Thermoelectric Modules
 - 7.4.2. Micro Thermoelectric Modules
 - 7.4.3. Thin-Film Thermoelectric Modules

CHAPTER 8. GLOBAL THERMOELECTRIC MODULES MARKET, BY FUNCTIONALITY

- 8.1. Market Snapshot
- 8.2. Global Thermoelectric Modules Market by Functionality, Performance - Potential Analysis
- 8.3. Global Thermoelectric Modules Market Estimates & Forecasts by Functionality 2018-2028 (USD Million)
- 8.4. Thermoelectric Modules Market, Sub Segment Analysis
 - 8.4.1. General Purpose
 - 8.4.2. Deep Cooling

CHAPTER 9. GLOBAL THERMOELECTRIC MODULES MARKET, BY OFFERING

- 9.1. Market Snapshot
- 9.2. Global Thermoelectric Modules Market by Offering, Performance - Potential Analysis
- 9.3. Global Thermoelectric Modules Market Estimates & Forecasts by Offering 2018-2028 (USD Million)
- 9.4. Thermoelectric Modules Market, Sub Segment Analysis
 - 9.4.1. Hardware
 - 9.4.2. Services

CHAPTER 10. GLOBAL THERMOELECTRIC MODULES MARKET, BY END-USE APPLICATION

- 10.1. Market Snapshot
- 10.2. Global Thermoelectric Modules Market by End-Use Application, Performance - Potential Analysis
- 10.3. Global Thermoelectric Modules Market Estimates & Forecasts by End-Use

Application 2018-2028 (USD Million)

10.4. Thermoelectric Modules Market, Sub Segment Analysis

- 10.4.1. Consumer Electronics
- 10.4.2. Industrial
- 10.4.3. Telecommunications
- 10.4.4. Automotive
- 10.4.5. Medical & Laboratories
- 10.4.6. Aerospace & Defense
- 10.4.7. Oil & Gas and Mining

CHAPTER 11. GLOBAL THERMOELECTRIC MODULES MARKET, REGIONAL ANALYSIS

11.1. Thermoelectric Modules Market, Regional Market Snapshot

11.2. North America Thermoelectric Modules Market

11.2.1. U.S. Thermoelectric Modules Market

11.2.1.1. Model estimates & forecasts, 2018-2028

11.2.1.2. Type estimates & forecasts, 2018-2028

11.2.1.3. Functionality estimates & forecasts, 2018-2028

11.2.1.4. Offering estimates & forecasts, 2018-2028

11.2.1.5. End-Use Application estimates & forecasts, 2018-2028

11.2.2. Canada Thermoelectric Modules Market

11.3. Europe Thermoelectric Modules Market Snapshot

11.3.1. U.K. Thermoelectric Modules Market

11.3.2. Germany Thermoelectric Modules Market

11.3.3. France Thermoelectric Modules Market

11.3.4. Spain Thermoelectric Modules Market

11.3.5. Italy Thermoelectric Modules Market

11.3.6. Rest of Europe Thermoelectric Modules Market

11.4. Asia-Pacific Thermoelectric Modules Market Snapshot

11.4.1. China Thermoelectric Modules Market

11.4.2. India Thermoelectric Modules Market

11.4.3. Japan Thermoelectric Modules Market

11.4.4. Australia Thermoelectric Modules Market

11.4.5. South Korea Thermoelectric Modules Market

11.4.6. Rest of Asia Pacific Thermoelectric Modules Market

11.5. Latin America Thermoelectric Modules Market Snapshot

11.5.1. Brazil Thermoelectric Modules Market

11.5.2. Mexico Thermoelectric Modules Market

11.6. Rest of The World Thermoelectric Modules Market

CHAPTER 12. COMPETITIVE INTELLIGENCE

12.1. Top Market Strategies

12.2. Company Profiles

12.2.1. Ferrotec Holdings Corporation

12.2.1.1. Key Information

12.2.1.2. Overview

12.2.1.3. Financial (Subject to Data Availability)

12.2.1.4. Model Summary

12.2.1.5. Recent Developments

12.2.2. II-VI Incorporated

12.2.3. Laird Thermal Systems Inc.

12.2.4. Guangdong Fuxin Technology Co. Ltd.

12.2.5. Phononic Inc.

12.2.6. INHECO Industrial Heating & Cooling GmbH

12.2.7. Kyocera Corporation

12.2.8. Align Sourcing Inc.

12.2.9. HiTECH Technologies Inc.

12.2.10. Thermonamic Electronics (Jiangxi) Corp., Ltd.

CHAPTER 13. RESEARCH PROCESS

13.1. Research Process

13.1.1. Data Mining

13.1.2. Analysis

13.1.3. Market Estimation

13.1.4. Validation

13.1.5. Publishing

13.2. Research Attributes

13.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Thermoelectric Modules market, report scope

TABLE 2. Global Thermoelectric Modules market estimates & forecasts by Region 2018-2028 (USD Million)

TABLE 3. Global Thermoelectric Modules market estimates & forecasts by Model 2018-2028 (USD Million)

TABLE 4. Global Thermoelectric Modules market estimates & forecasts by Type 2018-2028 (USD Million)

TABLE 5. Global Thermoelectric Modules market estimates & forecasts by Functionality 2018-2028 (USD Million)

TABLE 6. Global Thermoelectric Modules market estimates & forecasts by Offering 2018-2028 (USD Million)

TABLE 7. Global Thermoelectric Modules market estimates & forecasts by End-Use Application 2018-2028 (USD Million)

TABLE 8. Global Thermoelectric Modules market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 9. Global Thermoelectric Modules market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 10. Global Thermoelectric Modules market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 11. Global Thermoelectric Modules market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 12. Global Thermoelectric Modules market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 13. Global Thermoelectric Modules market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 14. Global Thermoelectric Modules market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 15. Global Thermoelectric Modules market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 16. Global Thermoelectric Modules market by segment, estimates & forecasts, 2018-2028 (USD Million)

TABLE 17. Global Thermoelectric Modules market by region, estimates & forecasts, 2018-2028 (USD Million)

TABLE 18. U.S. Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 19. U.S. Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 20. U.S. Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 21. Canada Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 22. Canada Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 23. Canada Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 24. UK Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 25. UK Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 26. UK Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 27. Germany Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 28. Germany Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 29. Germany Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 30. RoE Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 31. RoE Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 32. RoE Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 33. China Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 34. China Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 35. China Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 36. India Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 37. India Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 38. India Thermoelectric Modules market estimates & forecasts by segment

2018-2028 (USD Million)

TABLE 39. Japan Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 40. Japan Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 41. Japan Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 42. RoAPAC Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 43. RoAPAC Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 44. RoAPAC Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 45. Brazil Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 46. Brazil Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 47. Brazil Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 48. Mexico Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 49. Mexico Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 50. Mexico Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 51. RoLA Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 52. RoLA Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 53. RoLA Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 54. Row Thermoelectric Modules market estimates & forecasts, 2018-2028 (USD Million)

TABLE 55. Row Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 56. Row Thermoelectric Modules market estimates & forecasts by segment 2018-2028 (USD Million)

TABLE 57. List of secondary sources, used in the study of global Thermoelectric Modules market

TABLE 58. List of primary sources, used in the study of global Thermoelectric Modules market

TABLE 59. Years considered for the study

TABLE 60. Exchange rates considered

List Of Figures

LIST OF FIGURES

- FIG 1. Global Thermoelectric Modules market, research methodology
- FIG 2. Global Thermoelectric Modules market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Thermoelectric Modules market, key trends 2021
- FIG 5. Global Thermoelectric Modules market, growth prospects 2022-2028
- FIG 6. Global Thermoelectric Modules market, porters 5 force model
- FIG 7. Global Thermoelectric Modules market, pest analysis
- FIG 8. Global Thermoelectric Modules market, value chain analysis
- FIG 9. Global Thermoelectric Modules market by segment, 2019 & 2028 (USD Million)
- FIG 10. Global Thermoelectric Modules market by segment, 2019 & 2028 (USD Million)
- FIG 11. Global Thermoelectric Modules market by segment, 2019 & 2028 (USD Million)
- FIG 12. Global Thermoelectric Modules market by segment, 2019 & 2028 (USD Million)
- FIG 13. Global Thermoelectric Modules market by segment, 2019 & 2028 (USD Million)
- FIG 14. Global Thermoelectric Modules market, regional snapshot 2019 & 2028
- FIG 15. North America Thermoelectric Modules market 2019 & 2028 (USD Million)
- FIG 16. Europe Thermoelectric Modules market 2019 & 2028 (USD Million)
- FIG 17. Asia pacific market 2019 & 2028 (USD Million)
- FIG 18. Latin America Thermoelectric Modules market 2019 & 2028 (USD Million)
- FIG 19. Global Thermoelectric Modules market, company market share analysis (2021)

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