

# **Automotive Thermoelectric Generator Market by Component (Thermoelectric Module, Cooling Plates, Heat Exchangers, and Others), Material (Magnesium Silicide, Bismuth Telluride (Bi<sub>2</sub>Te<sub>3</sub>), Lead Telluride (PbTe), Skutterudite), Vehicle Type (Passenger Cars, Commercial Vehicles), Application (Waste Heat Recovery, Energy Harvesting, Direct Power Generation, Co-generation), and Region 2023-2028**

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## **Abstracts**

The global automotive thermoelectric generator market size reached US\$ 40.1 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 80.0 Million by 2028, exhibiting a growth rate (CAGR) of 12.0% during 2023-2028.

An automotive thermoelectric generator is a device that transforms the waste heat of an internal combustion engine (ICE) into electrical energy using the Seebeck effect. It contains heat exchangers, cooling plates, compression assembly, and thermoelectric materials, such as bismuth telluride (Bi<sub>2</sub>Te<sub>3</sub>), lead telluride (PbTe), skutterudite, and magnesium silicide. An automotive thermoelectric generator is widely used to power various systems of the vehicle, such as infotainment, air conditioning, lighting, and small refrigerators. It is a relatively simple system that recycles wasted heat energy, reduces fuel consumption, minimizes operating costs, and supports vehicle electrification. An automotive thermoelectric generator is also eco-friendly and lightweight, requires low maintenance, and doesn't generate noise or vibrations.

Automotive Thermoelectric Generator Market Trends:

The increasing demand for fuel-efficient vehicles is one of the primary factors driving the

market growth. An automotive thermoelectric generator is widely used in passenger and commercial vehicles to reduce fuel consumption and improve efficiency. It also replaces the generator load, provides faster warm-up of the engine and transmission, minimizes added mass, and converts selected mechanical functions of the vehicles into electrical parts, such as coolant, oil, and trans fluid pumps. Furthermore, the extensive product utilization due to the rising environmental concerns, as they reduce carbon dioxide (CO<sub>2</sub>) emissions and minimize the use of refrigerants in cooling systems, is favoring the market growth. Apart from this, the implementation of stringent emission policies by several governments is acting as another growth-inducing factor. Additionally, the recent development of thin film thermoelectric generators for automotive applications that provide enhanced efficiency, scalability, cost-effectiveness, and reduced material wastage is positively influencing the market growth. Other factors, including increasing product adoption in hybrid and electric vehicles (H/EVs), extensive research and development (R&D) activities, rapid electrification of existing vehicles, and rising expenditure capacities of consumers, are anticipated to drive the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global automotive thermoelectric generator market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component, material, vehicle type and application.

#### Breakup by Component:

- Thermoelectric Module
- Cooling Plates
- Heat Exchangers
- Others

#### Breakup by Material:

- Magnesium Silicide
- Bismuth Telluride (Bi<sub>2</sub>Te<sub>3</sub>)
- Lead Telluride (PbTe)
- Skutterudite

#### Breakup by Vehicle Type:

- Passenger Cars

## Commercial Vehicles

### Breakup by Application:

- Waste Heat Recovery
- Energy Harvesting
- Direct Power Generation
- Co-generation

### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific
  - China
  - Japan
  - India
  - South Korea
  - Australia
  - Indonesia
  - Others
- Europe
  - Germany
  - France
  - United Kingdom
  - Italy
  - Spain
  - Russia
  - Others
- Latin America
  - Brazil
  - Mexico
  - Others
- Middle East and Africa

### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Coherent Corp., European Thermodynamics Ltd.,

Ferrotec (USA) Corporation (Ferrotec Holdings Corporation), Laird PLC, SANGO Co. Ltd., Thermonamic Electronics (Jiangxi) Corp. Ltd. and Yamaha Corporation. Kindly, note that this only represents a partial list of companies, and the complete list has been provided in the report.

#### Key Questions Answered in This Report:

How has the global automotive thermoelectric generator market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global automotive thermoelectric generator market?

What are the key regional markets?

What is the breakup of the market based on the component?

What is the breakup of the market based on the material?

What is the breakup of the market based on the vehicle type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global automotive thermoelectric generator market and who are the key players?

What is the degree of competition in the industry?

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