

# **Global Automotive Energy Recovery System Market Size Study, by Product Type (Regenerative Braking System, Turbocharger, Exhaust Gas Recirculation), by Vehicle Type (Passenger Cars, Commercial Vehicles, Electric Vehicles) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Automotive Energy Recovery System Market is valued at approximately USD 27.7 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.40% over the forecast period 2024-2032. An Automotive Energy Recovery System captures and reuses energy that would otherwise be lost during vehicle operation, such as braking. This system converts the wasted energy into electrical energy or mechanical power, enhancing fuel efficiency and reducing emissions. Common applications include regenerative braking systems in hybrid and electric vehicles, which store the recovered energy in batteries or supercapacitors, and kinetic energy recovery systems (KERS) in Formula 1 cars, providing a power boost during acceleration. Also, the growing adoption of hybrid and electric vehicles supports the growth of the global automotive energy recovery system market by increasing demand for efficient energy recovery technologies. These systems enhance vehicle performance and extend battery life by capturing and reusing energy, aligning with the sustainability goals and efficiency requirements of hybrid and electric vehicle manufacturers.

The Global Automotive Energy Recovery System Market is driven by the rising demand for fuel-efficient vehicles, advancements in regenerative braking technologies, increasing adoption of hybrid and electric vehicles, and stringent government regulations on emissions. A significant driver is the growing emphasis on sustainability, which propels the development and integration of energy recovery systems to minimize energy waste and reduce the overall carbon footprint of vehicles. However, the market faces certain restraints, such as the high initial cost of these systems and the technical

challenges of integrating them into existing vehicle platforms. Additionally, the complexity of maintenance and the need for specialized skills can deter widespread adoption. Despite these challenges, the Global Automotive Energy Recovery System Market is poised for growth as technological innovations continue to address these issues, and environmental concerns drive the demand for more efficient and sustainable automotive solutions.

The key regions considered for the Global Automotive Energy Recovery System market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is the dominating region in terms of revenue in the Global Automotive Energy Recovery System Market. The region has a high demand for fuel-efficient and eco-friendly vehicles, driven by both consumer preferences and stringent government emission regulations. Significant investments in research and development by leading automotive manufacturers have spurred technological advancements in energy recovery systems. The region is home to many major automotive companies that are pioneering innovations in this field. Additionally, government incentives and subsidies for hybrid and electric vehicles have accelerated the adoption of these systems. The strong automotive technology infrastructure and the presence of a highly skilled workforce further bolster North America's leading position in the Global Automotive Energy Recovery System Market. On the other hand, the market in Asia Pacific is expected to develop at the fastest rate over the forecast period.

Major market players included in this report are:

Tenneco Inc.,  
Robert Bosch GmbH  
Continental AG  
Faurecia SE  
Honeywell International Inc.  
BorgWarner Inc.  
Mitsubishi Heavy Industries, Ltd.  
Hyundai Motor Company  
Cummins Inc  
IHI corporation

The detailed segments and sub-segments of the market are explained below:

By Product Type  
Regenerative Braking System  
Turbocharger  
Exhaust Gas Recirculation

By Vehicle Type

Passenger Cars

Commercial Vehicles

Electric Vehicles

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

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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