

US 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) Forecasts 2022-2032

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Abstracts

US Automotive Energy Recovery System Market is valued at approximately USD 4.67 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.01% over the forecast period 2024-2032. An Automotive Energy Recovery System (ERS) is a technology used in vehicles to capture and reuse energy that would otherwise be lost during processes like braking or deceleration. This energy can be stored in batteries or supercapacitors and later used to power the vehicle, improving fuel efficiency and reducing emissions. Common applications include regenerative braking systems in electric and hybrid vehicles, which convert kinetic energy into electrical energy, and systems that recover waste heat from the engine to generate additional power. Also, stringent emission regulations in the US support the growth of the Automotive Energy Recovery System market by compelling automakers to adopt technologies that reduce greenhouse gas emissions. Energy recovery systems, such as regenerative braking, help vehicles meet these standards by improving fuel efficiency and reducing emissions, thereby driving their increased integration into modern vehicles.

The US Automotive Energy Recovery System market is driven by the increasing environmental consciousness among consumers and regulatory pressures to improve vehicle efficiency. One significant qualitative driver is the growing emphasis on sustainability across industries. Companies are compelled to integrate energy recovery systems to align with global sustainability goals, enhancing their corporate image and meeting evolving consumer preferences for eco-friendly products. Despite these drivers, high initial costs and technological complexities hinder widespread adoption.

Manufacturers struggle to balance the significant investment needed for advanced energy recovery technologies with the competitive pricing demands of the automotive market. Innovative solutions are essential to reduce costs and simplify integration processes, ensuring that energy recovery systems become economically viable without compromising performance or safety standards.

Major market players included in this report are:

BorgWarner Inc.

Tenneco Inc.

Cummins Inc.

General Motors

Ford Motor Company

Tesla, Inc.

Eaton Corporation

Parker Hannifin Corporation

Honeywell International Inc.

Denso 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

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 Country 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

Contents

CHAPTER 1. US AUTOMOTIVE ENERGY RECOVERY SYSTEM MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 1.1. Research Objective
- 1.2. Market Definition
- 1.3. Research Assumptions
 - 1.3.1. Inclusion & Exclusion
 - 1.3.2. Limitations
 - 1.3.3. Supply Side Analysis
 - 1.3.3.1. Availability
 - 1.3.3.2. Infrastructure
 - 1.3.3.3. Regulatory Environment
 - 1.3.3.4. Market Competition
 - 1.3.3.5. Economic Viability (Consumer's Perspective)
 - 1.3.4. Demand Side Analysis
 - 1.3.4.1. Regulatory frameworks
 - 1.3.4.2. Technological Advancements
 - 1.3.4.3. Environmental Considerations
 - 1.3.4.4. Consumer Awareness & Acceptance
- 1.4. Estimation Methodology
- 1.5. Years Considered for the Study
- 1.6. Currency Conversion Rates

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. US Automotive Energy Recovery System Market Size & Forecast (2022- 2032)
- 2.2. Segmental Summary
 - 2.2.1. By Product Type
 - 2.2.2. By Vehicle Type
- 2.3. Key Trends
- 2.4. Recession Impact
- 2.5. Analyst Recommendation & Conclusion

CHAPTER 3. US AUTOMOTIVE ENERGY RECOVERY SYSTEM MARKET DYNAMICS

- 3.1. Market Drivers

- 3.2. Market Challenges
- 3.3. Market Opportunities

CHAPTER 4. US AUTOMOTIVE ENERGY RECOVERY SYSTEM 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
 - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. US AUTOMOTIVE ENERGY RECOVERY SYSTEM MARKET SIZE & FORECASTS BY PRODUCT TYPE 2022-2032

- 5.1. Regenerative Braking System
- 5.2. Turbocharger
- 5.3. Exhaust Gas Recirculation

CHAPTER 6. US AUTOMOTIVE ENERGY RECOVERY SYSTEM MARKET SIZE & FORECASTS BY VEHICLE TYPE 2022-2032

- 6.1. Passenger Cars
- 6.2. Commercial Vehicles

6.3. Electric Vehicles

CHAPTER 7. COMPETITIVE INTELLIGENCE

7.1. Key Company SWOT Analysis

7.1.1. Company

7.1.2. Company

7.1.3. Company

7.2. Top Market Strategies

7.3. Company Profiles

7.3.1. BorgWarner Inc.

7.3.1.1. Key Information

7.3.1.2. Overview

7.3.1.3. Financial (Subject to Data Availability)

7.3.1.4. Product Summary

7.3.1.5. Market Strategies

7.3.2. Tenneco Inc.

7.3.3. Cummins Inc.

7.3.4. General Motors

7.3.5. Ford Motor Company

7.3.6. Tesla, Inc.

7.3.7. Eaton Corporation

7.3.8. Parker Hannifin Corporation

7.3.9. Honeywell International Inc.

7.3.10. Denso Corporation

CHAPTER 8. RESEARCH PROCESS

8.1. Research Process

8.1.1. Data Mining

8.1.2. Analysis

8.1.3. Market Estimation

8.1.4. Validation

8.1.5. Publishing

8.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. US Automotive Energy Recovery System market, report scope

TABLE 2. US Automotive Energy Recovery System market estimates & forecasts by Product Type 2022-2032 (USD Billion)

TABLE 3. US Automotive Energy Recovery System market estimates & forecasts by Vehicle Type 2022-2032 (USD Billion)

TABLE 4. US Automotive Energy Recovery System market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 5. US Automotive Energy Recovery System market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 6. US Automotive Energy Recovery System market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 7. US Automotive Energy Recovery System market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. US Automotive Energy Recovery System market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. U.S. Automotive Energy Recovery System market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. U.S. Automotive Energy Recovery System market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 11. U.S. Automotive Energy Recovery System market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 12. List of secondary sources, used in the study of US Automotive Energy Recovery System Market.

TABLE 13. List of primary sources, used in the study of US Automotive Energy Recovery System Market.

TABLE 14. Years considered for the study.

TABLE 15. Exchange rates considered

List Of Figures

LIST OF FIGURES

- FIG 1. US Automotive Energy Recovery System market, research methodology
- FIG 2. US Automotive Energy Recovery System market, market estimation techniques
- FIG 3. US market size estimates & forecast methods.
- FIG 4. US Automotive Energy Recovery System market, key trends 2023
- FIG 5. US Automotive Energy Recovery System market, growth prospects 2022-2032
- FIG 6. US Automotive Energy Recovery System market, porters 5 force model
- FIG 7. US Automotive Energy Recovery System market, pestel analysis
- FIG 8. US Automotive Energy Recovery System market, value chain analysis
- FIG 9. US Automotive Energy Recovery System market by segment, 2022 & 2032 (USD Billion)
- FIG 10. US Automotive Energy Recovery System market by segment, 2022 & 2032 (USD Billion)
- FIG 11. US Automotive Energy Recovery System market by segment, 2022 & 2032 (USD Billion)
- FIG 12. US Automotive Energy Recovery System market by segment, 2022 & 2032 (USD Billion)
- FIG 13. US Automotive Energy Recovery System market by segment, 2022 & 2032 (USD Billion)
- FIG 14. US Automotive Energy Recovery System market, company market share analysis (2023)

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