

Commercial Vehicle SCR Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

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Abstracts

The Global Commercial Vehicle SCR Market was valued at USD 7.9 billion in 2024 and is projected to grow at a robust CAGR of 5.9% between 2025 and 2034. This growth is largely driven by stringent emission regulations targeting the reduction of nitrogen oxide (NOx) emissions from diesel engines, a critical step in combating environmental pollution.

With rising fuel costs and operational expenses, fleet operators are increasingly adopting technologies that enhance fuel efficiency while curbing emissions. Selective Catalytic Reduction (SCR) systems enable diesel engines to operate at higher combustion temperatures, optimizing performance and ensuring compliance with environmental standards. This dual benefit of cost savings and regulatory adherence continues to propel the demand for SCR solutions in the commercial vehicle sector globally.

The market is divided into on-highway and off-highway vehicle applications, with off-highway vehicles leading the segment, commanding a 60% share in 2024. The dominance of this segment is fueled by the growing adoption of emission-control technologies in sectors like construction, mining, and agriculture. These industries face stringent environmental regulations, making SCR systems indispensable for compliance and minimizing their ecological footprint.

In terms of sales channels, the market is categorized into OEM (Original Equipment Manufacturer) and aftermarket segments. OEMs secured a dominant 75% market share in 2024 thanks to their ability to integrate emission-control technologies directly during vehicle production. By leveraging established supply chains and economies of scale,

manufacturers are equipping vehicles with SCR systems to meet evolving regulatory requirements efficiently.

Asia has emerged as a key growth region for the commercial vehicle SCR market, driven by rapid industrialization and large-scale infrastructure development. The production of heavy-duty vehicles combined with the enforcement of strict emission standards has significantly expanded the market in the region. The increasing adoption of SCR systems in Asia highlights the commitment to meeting emission norms while supporting economic growth through modernized and efficient transportation networks.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research design
 - 1.1.1 Research approach
 - 1.1.2 Data collection methods
- 1.2 Base estimates and calculations
 - 1.2.1 Base year calculation
 - 1.2.2 Key trends for market estimates
- 1.3 Forecast model
- 1.4 Primary research & validation
 - 1.4.1 Primary sources
 - 1.4.2 Data mining sources
- 1.5 Market definitions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Supplier landscape
 - 3.2.1 OEM Commercial vehicle SCR manufacturers
 - 3.2.2 Distributors
 - 3.2.3 End users
- 3.3 Profit margin analysis
- 3.4 Pricing analysis of commercial vehicle SCR
- 3.5 Cost Breakdown of commercial vehicle SCRs
- 3.6 Technology & innovation landscape
- 3.7 Key news & initiatives
- 3.8 Regulatory landscape
- 3.9 Impact forces
 - 3.9.1 Growth drivers
 - 3.9.1.1 Stringent emissions regulations globally such as Euro VI and EPA Tier
 - 3.9.1.2 Rising demand for fuel efficiency and operational cost savings
 - 3.9.1.3 Growth in commercial vehicle production and sales
 - 3.9.1.4 Increasing adoption of retrofit solutions for older fleets

- 3.9.2 Industry pitfalls & challenges
 - 3.9.2.1 High initial costs and maintenance expenses of SCR systems
 - 3.9.2.2 Limited infrastructure for Diesel Exhaust Fluid supply in certain region
- 3.10 Growth potential analysis
- 3.11 Porter's analysis
- 3.12 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY VEHICLE, 2021 - 2034 (\$BN, UNITS)

- 5.1 Key trends
- 5.2 Heavy-duty trucks
- 5.3 Light commercial vehicles
- 5.4 Buses
- 5.5 Others

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY COMPONENT, 2021 - 2034 (\$BN, UNITS)

- 6.1 Key trends
- 6.2 SCR catalyst
- 6.3 Urea tank
- 6.4 DEF injector
- 6.5 SCR control module
- 6.6 Others

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021 - 2032 (\$BN, UNITS)

- 7.1 Key trends
- 7.2 On-highway vehicles
- 7.3 Off-highway vehicles

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY SALES CHANNEL, 2021 - 2032 (\$BN, UNITS)

- 8.1 Key trends
- 8.2 OEM
- 8.3 Aftermarket

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2034 (\$BN, UNITS)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 UK
 - 9.3.2 Germany
 - 9.3.3 France
 - 9.3.4 Spain
 - 9.3.5 Italy
 - 9.3.6 Russia
 - 9.3.7 Nordics
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 India
 - 9.4.3 Japan
 - 9.4.4 South Korea
 - 9.4.5 ANZ
 - 9.4.6 Southeast Asia
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
 - 9.5.3 Argentina
- 9.6 MEA
 - 9.6.1 UAE
 - 9.6.2 South Africa
 - 9.6.3 Saudi Arabia

CHAPTER 10 COMPANY PROFILES

- 10.1 Aisin Seiki
- 10.2 BASF SE
- 10.3 Bosch Mobility Solutions
- 10.4 Continental
- 10.5 Corning
- 10.6 Cummins
- 10.7 BorgWarner
- 10.8 Denso
- 10.9 Eberspacher Group
- 10.10 Faurecia (Forvia)
- 10.11 GKN Automotive
- 10.12 Hitachi Astemo
- 10.13 Johnson Matthey
- 10.14 Magna
- 10.15 Mahle
- 10.16 Schaeffler
- 10.17 Tenneco
- 10.18 Valeo
- 10.19 Weifu High-Technology Group
- 10.20 ZF Friedrichshafen

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