

Selective Catalytic Reduction Market Size, Share & Trends Analysis Report By End-use (Automotive, Power Generation, Chemical & Petrochemical), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Selective Catalytic Reduction Market Growth & Trends

The global selective catalytic reduction market size is anticipated to reach USD 19.71 billion by 2030, growing at a CAGR of 5.5% during the forecast period, according to a new report by Grand View Research, Inc. The selective catalytic reduction industry is experiencing significant growth driven by increasing environmental regulations across various industries. As governments worldwide tighten emission standards to combat air pollution, selective catalytic reduction (SCR) technology is being widely adopted in sectors like power generation, automotive, and industrial processes. The growing need for cleaner air and sustainable practices is pushing industries to invest in SCR systems to meet strict nitrogen oxide (NOx) emission reduction targets.

Another key trend in the SCR market is the rising adoption of diesel vehicles equipped with SCR systems. As emission standards become more stringent globally, especially in regions like Europe, North America, and Asia, SCR technology is essential for diesel-powered vehicles to comply with regulatory requirements. With the automotive industry shifting towards cleaner alternatives, SCR systems are critical for reducing NOx emissions, improving air quality, and meeting government mandates such as Euro 6 in Europe or EPA regulations in the U.S.

The growing demand for industrial applications of SCR technology is fueling market expansion. Industries such as chemicals, oil and gas, and cement are increasingly adopting SCR systems to lower their emissions. The need to meet sustainability goals and reduce environmental impact is prompting industrial operators to invest in advanced emission control technologies. Furthermore, the continuous development of high-efficiency catalysts is boosting SCR performance in these sectors, enabling better NOx reduction with lower operating costs.

Moreover, the emergence of new markets in developing regions is contributing to the growth of the selective catalytic reduction industry. Countries in Asia-Pacific, Latin America, and the Middle East are implementing stricter environmental regulations, creating new opportunities for SCR technology adoption. As these regions industrialize and urbanize, the demand for cleaner emissions control systems is expected to rise, further expanding the global SCR market.

Selective Catalytic Reduction Market Report Highlights

In 2024, the automotive end use segment dominated the market, accounting for 48.1% of the total revenue share. Selective catalytic reduction (SCR) is widely used in the automotive industry to reduce nitrogen oxide (NOx) emissions from diesel engines.

In power generation, selective catalytic reduction (SCR) is used to reduce NOx emissions from coal and gas-fired power plants, ensuring compliance with air quality regulations and minimizing environmental impact.

In the chemical and petrochemical industries, SCR technology is employed to control NOx emissions from various processes, including ammonia production and refinery operations, improving air quality and meeting regulatory standards.

The Asia Pacific selective catalytic reduction (SCR) industry is experiencing significant growth due to stricter environmental regulations and increasing industrialization. Countries like China and India are adopting SCR technology to control NOx emissions from power plants, industrial facilities, and vehicles.

In May 2022, Yanmar Power Technology Co., Ltd. (YPT), a subsidiary of

Yanmar Holdings Co., Ltd., began offering its proprietary selective catalytic reduction (SCR) exhaust gas purification system with connected functionality and a dedicated management app.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation and Scope
- 1.2. Market Definitions
- 1.3. Research Methodology
 - 1.3.1. Information Procurement
 - 1.3.2. Information or Data Analysis
 - 1.3.3. Market Formulation & Data Visualization
 - 1.3.4. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
 - 1.4.1. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

CHAPTER 3. SELECTIVE CATALYTIC REDUCTION (SCR) MARKET VARIABLES, TRENDS, & SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Concentration & Growth Prospect Mapping
- 3.3. Industry Value Chain Analysis
 - 3.3.1. Raw Material/Component Outlook
 - 3.3.2. Manufacture Outlook
 - 3.3.3. Distribution Outlook
- 3.4. Technology Overview
- 3.5. Regulatory Framework
- 3.6. Market Dynamics
 - 3.6.1. Market Drivers Analysis
 - 3.6.2. Market Restraints Analysis
 - 3.6.3. Market Opportunity Analysis
 - 3.6.4. Market Challenge Analysis
- 3.7. Selective Catalytic Reduction (SCR) Market Analysis Tools
 - 3.7.1. Porter's Analysis
 - 3.7.1.1. Bargaining power of the suppliers

- 3.7.1.2. Bargaining power of the buyers
- 3.7.1.3. Threats of substitution
- 3.7.1.4. Threats from new entrants
- 3.7.1.5. Competitive rivalry
- 3.7.2. PESTEL Analysis
 - 3.7.2.1. Political landscape
 - 3.7.2.2. Economic and Social landscape
 - 3.7.2.3. Technological landscape
 - 3.7.2.4. Environmental landscape
 - 3.7.2.5. Legal landscape
- 3.8. Economic Mega Trend Analysis

CHAPTER 4. SELECTIVE CATALYTIC REDUCTION (SCR) MARKET: END USE ESTIMATES & TREND ANALYSIS

- 4.1. Segment Dashboard
- 4.2. Selective Catalytic Reduction (SCR) Market: Application Movement Analysis, 2024 & 2030 (USD Million)
- 4.3. Automotive
 - 4.3.1. Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)
 - 4.3.2. Market Revenue Estimates and Forecasts, By Passenger Cars, 2018 - 2030 (USD Million)
 - 4.3.3. Market Revenue Estimates and Forecasts, By Commercial Vehicles, 2018 - 2030 (USD Million)
- 4.4. Power Generation
 - 4.4.1. Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)
- 4.5. Marine
 - 4.5.1. Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)
- 4.6. Chemical & Petrochemical
 - 4.6.1. Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)
- 4.7. Cement
 - 4.7.1. Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)
- 4.8. Others
 - 4.8.1. Market Revenue Estimates and Forecasts, 2018 - 2030 (USD Million)

CHAPTER 5. SELECTIVE CATALYTIC REDUCTION (SCR) MARKET: REGION ESTIMATES & TREND ANALYSIS

- 5.1. Selective Catalytic Reduction (SCR) Market Share, By Region, 2024 & 2030, USD

Million

5.2. North America

5.2.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.2.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.2.3. U.S.

5.2.3.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.2.3.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.2.4. Canada

5.2.4.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.2.4.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.2.5. Mexico

5.2.5.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.2.5.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.3. Europe

5.3.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.3.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.3.3. Germany

5.3.3.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.3.3.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.3.4. UK

5.3.4.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.3.4.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.3.5. France

5.3.5.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.3.5.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.3.6. Spain

5.3.6.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.3.6.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.3.7. Italy

5.3.7.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.3.7.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.4. Asia Pacific

5.4.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.4.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.4.3. China

5.4.3.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.4.3.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.4.4. India

5.4.4.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.4.4.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.4.5. Japan

5.4.5.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.4.5.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.4.6. Australia

5.4.6.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.4.6.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.4.7. South Korea

5.4.7.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 -

2030 (USD Million)

5.4.7.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.5. Latin America

5.5.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.5.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.5.3. Brazil

5.5.3.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.5.3.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.5.4. Argentina

5.5.4.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.5.4.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.6. Middle East & Africa

5.6.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.6.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.6.3. Saudi Arabia

5.6.3.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.6.3.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.6.4. UAE

5.6.4.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.6.4.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

5.6.5. South Africa

5.6.5.1. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, 2018 - 2030 (USD Million)

5.6.5.2. Selective Catalytic Reduction (SCR) Market Estimates and Forecasts, By End Use, 2018 - 2030 (USD Million)

CHAPTER 6. COMPETITIVE LANDSCAPE

6.1. Recent Developments & Impact Analysis by Key Market Participants

6.2. Company Categorization

6.3. Company Market Positioning

6.4. Company Market Share Analysis

6.5. Company Heat Map Analysis

6.6. Strategy Mapping

6.7. Company Profiles

6.7.1. Cormetech

6.7.1.1. Participant's Overview

6.7.1.2. Financial Performance

6.7.1.3. Product Benchmarking

6.7.1.4. Recent Developments

6.7.2. Johnson Matthey

6.7.2.1. Participant's Overview

6.7.2.2. Financial Performance

6.7.2.3. Product Benchmarking

6.7.2.4. Recent Developments

6.7.3. BASF

6.7.3.1. Participant's Overview

6.7.3.2. Financial Performance

6.7.3.3. Product Benchmarking

6.7.3.4. Recent Developments

6.7.4. Ceram-Ibiden

6.7.4.1. Participant's Overview

6.7.4.2. Financial Performance

6.7.4.3. Product Benchmarking

6.7.4.4. Recent Developments

6.7.5. BOSCH

6.7.5.1. Participant's Overview

6.7.5.2. Financial Performance

6.7.5.3. Product Benchmarking

6.7.5.4. Recent Developments

6.7.6. Bosal

6.7.6.1. Participant's Overview

6.7.6.2. Financial Performance

6.7.6.3. Product Benchmarking

6.7.6.4. Recent Developments

6.7.7. Faurecia

6.7.7.1. Participant's Overview

6.7.7.2. Financial Performance

6.7.7.3. Product Benchmarking

6.7.7.4. Recent Developments

6.7.8. Haldor Topsoe

6.7.8.1. Participant's Overview

6.7.8.2. Financial Performance

6.7.8.3. Product Benchmarking

6.7.8.4. Recent Developments

6.7.9. Röchling Group

6.7.9.1. Participant's Overview

6.7.9.2. Financial Performance

6.7.9.3. Product Benchmarking

6.7.9.4. Recent Developments

6.7.10. MITSUBISHI HEAVY INDUSTRIES, LTD.

6.7.10.1. Participant's Overview

6.7.10.2. Financial Performance

6.7.10.3. Product Benchmarking

6.7.10.4. Recent Developments

6.7.11. ANDRITZ Clean Air Technologies

6.7.11.1. Participant's Overview

6.7.11.2. Financial Performance

6.7.11.3. Product Benchmarking

6.7.11.4. Recent Developments

6.7.12. Durr Systems, Inc.

6.7.12.1. Participant's Overview

6.7.12.2. Financial Performance

6.7.12.3. Product Benchmarking

6.7.12.4. Recent Developments

6.7.13. Cummins Inc.

6.7.13.1. Participant's Overview

6.7.13.2. Financial Performance

6.7.13.3. Product Benchmarking

6.7.13.4. Recent Developments

6.7.14. SCR Solutions Holding Ltd.

6.7.14.1. Participant's Overview

6.7.14.2. Financial Performance

6.7.14.3. Product Benchmarking

- 6.7.14.4. Recent Developments
- 6.7.15. CONCORD Thermal Efficiency
 - 6.7.15.1. Participant's Overview
 - 6.7.15.2. Financial Performance
 - 6.7.15.3. Product Benchmarking
 - 6.7.15.4. Recent Developments

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