

Emission Monitoring System Market by System Type (CEMS and PEMS), Device Type (Gas Analyzers, Flow & Opacity Monitors, Sample Probes, Data Controllers, Filters), Software, Services, Industry and Region - Global Forecast to 2028

<https://marketpublishers.com/r/E136749CA72EN.html>

Date: November 2023

Pages: 213

Price: US\$ 4,950.00 (Single User License)

ID: E136749CA72EN

Abstracts

The global emission monitoring system market size is expected to grow from USD 3.2 billion in 2023 to USD 5.0 billion by 2028, at a CAGR of 9.3% from 2023 to 2028. Many countries—both developed and developing—have taken steps to monitor air pollutants. In the United States, for example, the Clean Air Act requires the Environmental Protection Agency (EPA) to establish National Ambient Air Quality Standards (NAAQS) for six pollutants, including particulate matter, ozone, nitrogen oxide, carbon monoxide, sulfur dioxide, and lead. The EPA must periodically review these standards to ensure that they provide adequate environmental protection and update them as necessary.

“Services segment is projected to grow at significant CAGR during the forecast period.”

Emission monitoring systems undergo continuous degradation with their operation as the impurities and chemical gases react with sensors, gas analyzers, filters, and other components of the systems. Therefore, the maintenance of hardware and software is essential. Regular maintenance is required to ensure the optimum operating condition of the system. It also helps increase the operational efficiency of the emission monitoring system.

“Predictive emission monitoring system segment is projected to grow at an impressive CAGR during the forecast period.”

A DAS can be used to collect real-time data from existing process sensors, such as

temperature, flow, and pressure sensors. This data can then be used to train and update the PEMS model, resulting in more accurate predictions. Some of the prominent players that offer PEMS are ABB (Switzerland), Baker Hughes Company (US), DURAG GROUP (Germany), and Trace (US). For example, Baker Hughes Company's methane emission monitoring system, which is a type of PEMS, aids in identifying and measuring methane emissions more precisely.

'Chemicals, petrochemicals, refineries and fertilizers industry is expected to hold a significant market share during the forecast period.'

Emission monitoring systems are designed to monitor corrosive gases in extreme applications. In chemical plants, emission monitoring systems perform an elemental analysis of chemicals to determine the grade and quality of the chemicals extracted. Furthermore, companies install emission monitoring systems to monitor gas concentrations at elevated pressures and temperatures. Petroleum refineries are a significant source of hazardous and toxic air pollutants, such as particulate matter, nitrogen oxide, carbon monoxide, and sulfur dioxide. The refining stages of separation, conversion, and treatment are where these gases are emitted. These gases are highly corrosive and can cause cardiovascular diseases, cancer, and reproductive problems.

'The market in Europe is expected to grow at a significant CAGR during the forecast period.'

Countries such as Germany, the UK, and France are the major contributors to the EMS market in the region. The region is known for its robust power, cement, and chemical industries. Sulfur emissions from power plants and manufacturing industries are expected to be the key driving factor for market growth. Additionally, the European Commission consistently enforces environmental regulations that are perceived to be fair compared to other regions. Its air pollution regulations are also considered to be rather stringent.

Breakdown of the profiles of primary participants:

By Company Type: Tier 1 - 40%, Tier 2 - 35%, and Tier 3 - 25%

By Designation: C-level Executives - 40%, Directors - 35%, and Others - 25%

By Region: North America - 35%, Europe - 30%, Asia Pacific - 25%, and RoW – 10%

Major players profiled in this report are as follows: ABB (Switzerland), AMETEK. Inc. (US), Emerson Electric Co. (US), Siemens (Germany), Thermo Fisher Scientific Inc. (US), SICK AG (Germany), Fuji Electric Co., Ltd. (Japan), HORIBA, Ltd. (Japan), Baker Hughes Company (US), Teledyne Technologies Incorporated (US), Honeywell International Inc. (US), Spectris (UK), and others.

Research Coverage

The emission monitoring system market has been classified by types of emission, system type, offering, industry and region. The market by types of emission has been classified into oxygen, carbon monoxide, carbon dioxide, ammonia, hydrogen sulfide, nitrogen oxide, and hydrocarbons. The offering segment is divided into hardware, software, and services. The market has been divided into continuous emission monitoring systems (CEMS) and predictive emission monitoring system (PEMS) by system type segment. Furthermore, the industry segment includes power generation; oil & gas; chemicals, petrochemicals, refineries, and fertilizers; building materials; pulp and paper; pharmaceuticals; metals; mining; marine and shipping; and waste incineration. The study also forecasts the market size in four key regions—North America, Europe, Asia Pacific, and RoW.

Key Benefits of Buying the Report:

The report provides insights on the following pointers:

Analysis of key drivers (High reliance on coal-fired power plants to generate electricity worldwide, Growing focus on reducing hazardous gas emissions and environmental protection, Rising emphasis on ambient air quality monitoring), restraints (High maintenance costs associated with emission monitoring systems), opportunities (Rising Rise in number of petrochemical plants and refineries, Growing pharmaceuticals industry), and challenges (Performance limitations of emission monitoring systems in harsh operating conditions) influencing the growth of the emission monitoring system market

Product Development/Innovation: Detailed insights on new products, technologies, research & development activities, funding activities, industry partnerships, and new product launches in the emission monitoring system market

Market Development: Comprehensive information about lucrative markets – the report analyses the emission monitoring system market across regions such as North America, Europe, Asia Pacific, GCC, Rest of Middle East & Africa, and South America.

Market Diversification: Exhaustive information about new products & technologies, untapped geographies, recent developments, and investments in the emission monitoring system market

Competitive Assessment: In-depth assessment of market position, growth strategies, and product offerings of leading players like ABB (Switzerland), AMETEK. Inc. (US), Emerson Electric Co. (US), Siemens (Germany), Thermo Fisher Scientific Inc. (US) and among others in the emission monitoring system market

Strategies: The report also helps stakeholders understand the pulse of the emission monitoring system market and provides information on key market drivers, restraints, challenges, and opportunities

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 INCLUSIONS AND EXCLUSIONS

1.4 MARKETS COVERED

FIGURE 1 EMISSION MONITORING SYSTEM MARKET SEGMENTATION

1.4.1 REGIONAL SCOPE

1.4.2 YEARS CONSIDERED

1.5 CURRENCY CONSIDERED

1.6 UNITS CONSIDERED

1.7 STAKEHOLDERS

1.8 SUMMARY OF CHANGES

1.9 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 EMISSION MONITORING SYSTEM MARKET: RESEARCH DESIGN

2.1.1 SECONDARY AND PRIMARY RESEARCH

FIGURE 3 EMISSION MONITORING SYSTEM MARKET: RESEARCH APPROACH

2.1.2 SECONDARY DATA

2.1.2.1 List of major secondary sources

2.1.2.2 Key data from secondary sources

2.1.3 PRIMARY DATA

2.1.3.1 Primary interviews with experts

2.1.3.2 Key data from primary sources

2.1.3.3 Key industry insights

2.1.3.4 Breakdown of primaries

2.2 MARKET SIZE ESTIMATION

2.2.1 TOP-DOWN APPROACH

2.2.1.1 Estimation of market size using top-down approach

FIGURE 4 EMISSION MONITORING SYSTEM MARKET: TOP-DOWN APPROACH

2.2.2 BOTTOM-UP APPROACH

2.2.2.1 Estimation of market size using bottom-up approach

FIGURE 5 EMISSION MONITORING SYSTEM MARKET: BOTTOM-UP APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: SUPPLY-SIDE ANALYSIS

2.3 DATA TRIANGULATION

FIGURE 7 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

FIGURE 8 ASSUMPTIONS

2.5 LIMITATIONS

2.6 PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON EMISSION MONITORING SYSTEM MARKET

2.7 RISK ASSESSMENT

TABLE 1 RISK ANALYSIS

3 EXECUTIVE SUMMARY

FIGURE 9 EMISSION MONITORING SYSTEM MARKET, 2019–2028 (USD MILLION)

FIGURE 10 PEMS SEGMENT TO REGISTER HIGHER CAGR DURING FORECAST PERIOD

FIGURE 11 HARDWARE SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE FROM 2023 TO 2028

FIGURE 12 POWER GENERATION SEGMENT TO ACCOUNT LARGEST MARKET SHARE FROM 2023 TO 2028

FIGURE 13 ASIA PACIFIC TO DOMINATE GLOBAL EMISSION MONITORING SYSTEM MARKET DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN EMISSION MONITORING SYSTEM MARKET

FIGURE 14 GROWING DEMAND FOR EMS IN CHEMICALS, PETROCHEMICALS, REFINERIES, AND FERTILIZERS INDUSTRIES TO DRIVE MARKET

4.2 EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE

FIGURE 15 CEMS SEGMENT TO ACCOUNT FOR LARGER MARKET SHARE DURING FORECAST PERIOD

4.3 EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY

FIGURE 16 POWER GENERATION SEGMENT TO CAPTURE LARGEST MARKET SHARE DURING FORECAST PERIOD

4.4 NORTH AMERICA: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY AND COUNTRY

FIGURE 17 POWER GENERATION INDUSTRY AND US TO HOLD LARGEST SHARE OF NORTH AMERICAN EMISSION MONITORING SYSTEM MARKET IN 2028

4.5 EMISSION MONITORING SYSTEM MARKET, BY COUNTRY

FIGURE 18 INDIA TO EXHIBIT HIGHEST CAGR IN GLOBAL EMISSION MONITORING SYSTEM MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 GLOBAL EMS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 High reliance on coal-fired power plants to generate electricity worldwide

5.2.1.2 Growing focus on reducing hazardous gas emissions and environmental protection

5.2.1.3 Rising emphasis on ambient air quality monitoring

FIGURE 20 ANALYSIS OF IMPACT OF DRIVERS ON EMISSION MONITORING SYSTEM MARKET

5.2.2 RESTRAINTS

5.2.2.1 High maintenance costs associated with emission monitoring systems

FIGURE 21 ANALYSIS OF IMPACT OF RESTRAINTS ON EMISSION MONITORING SYSTEM MARKET

5.2.3 OPPORTUNITIES

5.2.3.1 Rise in number of petrochemical plants and refineries

5.2.3.2 Growing pharmaceuticals industry

FIGURE 22 ANALYSIS OF IMPACT OF OPPORTUNITIES ON EMISSION MONITORING SYSTEM MARKET

5.2.4 CHALLENGES

5.2.4.1 Performance limitations of emission monitoring systems in harsh operating conditions

FIGURE 23 ANALYSIS OF IMPACT OF CHALLENGES ON EMISSION MONITORING SYSTEM MARKET

5.3 VALUE CHAIN ANALYSIS

FIGURE 24 EMISSION MONITORING SYSTEM MARKET: VALUE CHAIN ANALYSIS

5.4 ECOSYSTEM/MARKET MAP

FIGURE 25 EMISSION MONITORING SYSTEM MARKET: ECOSYSTEM ANALYSIS

TABLE 2 EMISSION MONITORING SYSTEM MARKET: ROLE OF COMPANIES IN ECOSYSTEM

5.5 PRICING ANALYSIS

5.5.1 AVERAGE SELLING PRICE TREND OF EMISSION MONITORING SYSTEMS

FIGURE 26 AVERAGE SELLING PRICE OF EMISSION MONITORING SYSTEMS,

2018–2022

5.5.2 AVERAGE SELLING PRICE, BY KEY PLAYER

FIGURE 27 AVERAGE SELLING PRICE TREND OF GAS ANALYZERS OFFERED BY KEY PLAYERS

TABLE 3 AVERAGE SELLING PRICE OF GAS ANALYZERS OFFERED BY KEY PLAYERS

5.5.3 AVERAGE SELLING PRICE TREND, BY REGION

TABLE 4 AVERAGE SELLING PRICE OF EMISSION MONITORING SYSTEMS, BY REGION

5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 28 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.7 TECHNOLOGY ANALYSIS

5.7.1 BIG DATA ANALYTICS

5.7.2 EDGE AND DIAGNOSTICS ANALYTICS

5.8 PORTER'S FIVE FORCES ANALYSIS

FIGURE 29 EMISSION MONITORING SYSTEM MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 5 EMISSION MONITORING SYSTEM MARKET: IMPACT OF PORTER'S FIVE FORCES

5.8.1 BARGAINING POWER OF SUPPLIERS

5.8.2 BARGAINING POWER OF BUYERS

5.8.3 THREAT OF NEW ENTRANTS

5.8.4 THREAT OF SUBSTITUTES

5.8.5 INTENSITY OF COMPETITIVE RIVALRY

5.9 KEY STAKEHOLDERS AND BUYING CRITERIA

5.9.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 30 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 INDUSTRIES

TABLE 6 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY INDUSTRY

5.9.2 BUYING CRITERIA

FIGURE 31 KEY BUYING CRITERIA FOR TOP 3 INDUSTRIES

TABLE 7 KEY BUYING CRITERIA FOR TOP 3 INDUSTRIES

5.10 CASE STUDY ANALYSIS

TABLE 8 TEXTILE MANUFACTURER IN SURAT INSTALLED CEMS TO REDUCE EMISSIONS

TABLE 9 GENERAL ELECTRIC INSTALLED CEMS TO TRACK EMISSION LEVELS OF POWER PLANTS

TABLE 10 INSTALLATION OF CEMS IN TAIWAN TO CURB HEALTH ISSUES

5.11 TRADE ANALYSIS

5.11.1 IMPORT SCENARIO

FIGURE 32 IMPORT DATA FOR HS CODE 9027-COMPLIANT PRODUCTS, BY COUNTRY, 2018–2022 (USD MILLION)

5.11.2 EXPORT SCENARIO

FIGURE 33 EXPORT DATA FOR HS CODE 9027-COMPLIANT PRODUCTS, BY COUNTRY, 2018–2022 (USD MILLION)

5.12 PATENT ANALYSIS

FIGURE 34 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS IN LAST 10 YEARS

TABLE 11 TOP 20 PATENT OWNERS IN US, 2013–2022

FIGURE 35 NUMBER OF PATENTS GRANTED PER YEAR, 2013–2022

TABLE 12 LIST OF MAJOR PATENTS PERTAINING TO EMISSION MONITORING SYSTEM MARKET, 2021–2023

5.13 KEY CONFERENCES & EVENTS, 2023–2024

TABLE 13 DETAILED LIST OF CONFERENCES & EVENTS IN EMISSION MONITORING SYSTEM MARKET

5.14 REGULATORY LANDSCAPE

5.14.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 17 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.14.2 STANDARDS AND REGULATIONS

TABLE 18 EMISSION MONITORING SYSTEM MARKET: STANDARDS AND REGULATIONS

6 TYPES OF EMISSIONS

6.1 INTRODUCTION

6.2 OXYGEN

6.3 CARBON MONOXIDE

6.4 CARBON DIOXIDE

6.5 AMMONIA

6.6 HYDROGEN SULFIDE

6.7 NITROGEN OXIDE

6.8 HYDROCARBONS

7 EMISSION MONITORING SYSTEM MARKET, BY OFFERING

7.1 INTRODUCTION

FIGURE 36 EMISSION MONITORING SYSTEM MARKET, BY OFFERING

FIGURE 37 HARDWARE SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE
MARKET FROM 2023 TO 2028

TABLE 19 EMISSION MONITORING SYSTEM MARKET, BY OFFERING, 2019–2022
(USD MILLION)

TABLE 20 EMISSION MONITORING SYSTEM MARKET, BY OFFERING, 2023–2028
(USD MILLION)

7.2 HARDWARE

7.2.1 INCREASING REGULATIONS FOR POLLUTION MONITORING TO BOOST
ADOPTION OF RELIABLE EMS HARDWARE COMPONENTS

7.2.1.1 Gas analyzers

7.2.1.2 Gas sampling systems

7.2.1.3 Flow and opacity monitors

7.2.1.4 Sample probes

7.2.1.5 Sample lines

7.2.1.6 Data controllers

7.2.1.7 Filters

TABLE 21 HARDWARE: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM
TYPE, 2019–2022 (USD MILLION)

TABLE 22 HARDWARE: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM
TYPE, 2023–2028 (USD MILLION)

7.3 SOFTWARE

7.3.1 NEED TO ANALYZE EMISSION TRENDS TO BOOST ADOPTION OF EMS
SOFTWARE

TABLE 23 SOFTWARE: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM
TYPE, 2019–2022 (USD MILLION)

TABLE 24 SOFTWARE: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM
TYPE, 2023–2028 (USD MILLION)

7.4 SERVICES

7.4.1 NEED ENSURE OPTIMUM OPERATING CONDITION OF SYSTEMS TO
DRIVE DEMAND FOR MAINTENANCE SERVICES

7.4.1.1 Installation

7.4.1.2 Training

7.4.1.3 Maintenance

TABLE 25 SERVICES: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 26 SERVICES: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

8 EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE

8.1 INTRODUCTION

FIGURE 38 EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE

FIGURE 39 CEMS SEGMENT TO HOLD LARGER MARKET SHARE IN 2028

TABLE 27 EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 28 EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 29 EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (UNITS)

TABLE 30 EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (UNITS)

8.2 CONTINUOUS EMISSION MONITORING SYSTEM (CEMS)

8.2.1 NEED TO COMPLY WITH AIR QUALITY STANDARDS TO DRIVE ADOPTION OF CEMS

TABLE 31 CEMS: EMISSION MONITORING SYSTEM MARKET, BY OFFERING, 2019–2022 (USD MILLION)

TABLE 32 CEMS: EMISSION MONITORING SYSTEM MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 33 CEMS: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)

TABLE 34 CEMS: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)

TABLE 35 CEMS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 36 CEMS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

8.3 PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)

8.3.1 GROWING NEED FOR ACCURATE AND RELIABLE EMISSION MONITORING SYSTEMS TO BOOST SEGMENTAL GROWTH

TABLE 37 PEMS: EMISSION MONITORING SYSTEM MARKET, BY OFFERING, 2019–2022 (USD MILLION)

TABLE 38 PEMS: EMISSION MONITORING SYSTEM MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 39 PEMS: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)

TABLE 40 PEMS: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)

TABLE 41 PEMS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 42 PEMS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9 EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY

9.1 INTRODUCTION

FIGURE 40 EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY

FIGURE 41 POWER GENERATION INDUSTRY TO LEAD EMS MARKET

THROUGHOUT FORECAST PERIOD

TABLE 43 EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)

TABLE 44 EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)

9.2 POWER GENERATION

9.2.1 LARGE USAGE OF COAL IN POWER GENERATION INDUSTRY TO NECESSITATE ADOPTION OF EMISSION MONITORING SYSTEMS

TABLE 45 POWER GENERATION: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 46 POWER GENERATION: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 47 POWER GENERATION: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 48 POWER GENERATION: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9.3 OIL & GAS

9.3.1 HIGH METHANE EMISSION FROM OIL & GAS INDUSTRY TO DRIVE DEMAND FOR EMS

TABLE 49 OIL & GAS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 50 OIL & GAS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 51 OIL & GAS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 52 OIL & GAS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9.4 CHEMICALS, PETROCHEMICALS, REFINERIES, AND FERTILIZERS

9.4.1 RISING CONCERNS TO LIMIT GREENHOUSE GAS EMISSIONS TO DRIVE MARKET

TABLE 53 CHEMICALS, PETROCHEMICALS, REFINERIES, AND FERTILIZERS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 54 CHEMICALS, PETROCHEMICALS, REFINERIES, AND FERTILIZERS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 55 CHEMICALS, PETROCHEMICALS, REFINERIES, AND FERTILIZERS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 56 CHEMICALS, PETROCHEMICALS, REFINERIES, AND FERTILIZERS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9.5 BUILDING MATERIALS

9.5.1 NEED TO OPTIMIZE CEMENT PRODUCTION PROCESSES AND REDUCE EMISSIONS TO BOOST ADOPTION OF CEMS

TABLE 57 BUILDING MATERIALS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 58 BUILDING MATERIALS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 59 BUILDING MATERIALS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 60 BUILDING MATERIALS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9.6 PULP & PAPER

9.6.1 NEED TO REDUCE CARBON FOOTPRINT AND HARMFUL EMISSIONS TO BOOST ADOPTION OF EMS

TABLE 61 PULP & PAPER: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 62 PULP & PAPER: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 63 PULP & PAPER: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 64 PULP & PAPER: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9.7 PHARMACEUTICALS

9.7.1 FOCUS ON REDUCTION OF CARBON FOOTPRINT TO ACCELERATE ADOPTION OF EMS

TABLE 65 PHARMACEUTICALS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 66 PHARMACEUTICALS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 67 PHARMACEUTICALS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 68 PHARMACEUTICALS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9.8 METALS

9.8.1 GROWING DOWNSTREAM INDUSTRIES TO FUEL DEMAND FOR EMS

TABLE 69 METALS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 70 METALS: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 71 METALS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 72 METALS: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9.9 MINING

9.9.1 REQUIREMENT FOR DETECTION OF HAZARDOUS GASES IN MINES FOR SAFETY PURPOSES TO DRIVE MARKET

TABLE 73 MINING: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 74 MINING: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 75 MINING: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 76 MINING: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9.10 MARINE & SHIPPING

9.10.1 RISING ADOPTION OF POLICIES AND REGULATIONS TO REDUCE CO2 EMISSIONS TO CONTRIBUTE TO MARKET GROWTH

TABLE 77 MARINE & SHIPPING: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 78 MARINE & SHIPPING: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 79 MARINE & SHIPPING: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 80 MARINE & SHIPPING: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

9.11 WASTE INCINERATION

9.11.1 INCREASING WASTE GENERATION OWING TO RISING POPULATION TO DRIVE ADOPTION OF EMS

TABLE 81 WASTE INCINERATION: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 82 WASTE INCINERATION: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 83 WASTE INCINERATION: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 84 WASTE INCINERATION: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

10 EMISSION MONITORING SYSTEM MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 42 EMISSION MONITORING SYSTEM MARKET, BY REGION

FIGURE 43 INDIA TO EXHIBIT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 85 EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 86 EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

10.2 NORTH AMERICA

10.2.1 NORTH AMERICA: RECESSION IMPACT

FIGURE 44 NORTH AMERICA: EMISSION MONITORING SYSTEM MARKET SNAPSHOT

FIGURE 45 US TO ACCOUNT FOR LARGEST SHARE OF NORTH AMERICAN MARKET DURING FORECAST PERIOD

TABLE 87 NORTH AMERICA: EMISSION MONITORING SYSTEM MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 88 NORTH AMERICA: EMISSION MONITORING SYSTEM MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 89 NORTH AMERICA: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 90 NORTH AMERICA: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 91 NORTH AMERICA: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)

TABLE 92 NORTH AMERICA: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)

10.2.2 US

10.2.2.1 Presence of several end-user industries to drive market

10.2.3 CANADA

10.2.3.1 Demand from power generation and petrochemicals industries to support market growth

10.2.4 MEXICO

10.2.4.1 Presence of coal-fired power plants to propel market

10.3 EUROPE

10.3.1 EUROPE: RECESSION IMPACT

FIGURE 46 EUROPE: EMISSION MONITORING SYSTEM MARKET SNAPSHOT

FIGURE 47 GERMANY TO EXHIBIT HIGHEST CAGR IN EUROPEAN EMISSION MONITORING SYSTEM MARKET DURING FORECAST PERIOD

TABLE 93 EUROPE: EMISSION MONITORING SYSTEM MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 94 EUROPE: EMISSION MONITORING SYSTEM MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 95 EUROPE: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 96 EUROPE: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 97 EUROPE: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)

TABLE 98 EUROPE: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)

10.3.2 UK

10.3.2.1 Thriving cement industry to foster market growth

10.3.3 GERMANY

10.3.3.1 Focus on achieving zero pollution to boost demand for emission monitoring systems

10.3.4 FRANCE

10.3.4.1 Flourishing chemicals industry to spur market growth

10.3.5 REST OF EUROPE

10.4 ASIA PACIFIC

10.4.1 ASIA PACIFIC: RECESSION IMPACT

FIGURE 48 ASIA PACIFIC: EMISSION MONITORING SYSTEM MARKET SNAPSHOT

FIGURE 49 CHINA TO COMMAND LARGEST SHARE OF ASIA PACIFIC EMISSION MONITORING SYSTEM MARKET DURING FORECAST PERIOD

TABLE 99 ASIA PACIFIC: EMISSION MONITORING SYSTEM MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 100 ASIA PACIFIC: EMISSION MONITORING SYSTEM MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 101 ASIA PACIFIC: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 102 ASIA PACIFIC: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 103 ASIA PACIFIC: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)

TABLE 104 ASIA PACIFIC: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)

10.4.2 CHINA

10.4.2.1 Focus on low carbon emission policies

10.4.3 JAPAN

10.4.3.1 Prominent presence of cement and chemicals industry players to favor market growth

10.4.4 SOUTH KOREA

10.4.4.1 Rising health concerns to drive demand for EMS

10.4.5 INDIA

10.4.5.1 Surging steel production to create demand for EMS

10.4.6 REST OF ASIA PACIFIC

10.5 REST OF THE WORLD

10.5.1 ROW: RECESSION IMPACT

FIGURE 50 GCC TO DOMINATE ROW MARKET FROM 2023 TO 2028

TABLE 105 ROW: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 106 ROW: EMISSION MONITORING SYSTEM MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 107 ROW: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2019–2022 (USD MILLION)

TABLE 108 ROW: EMISSION MONITORING SYSTEM MARKET, BY SYSTEM TYPE, 2023–2028 (USD MILLION)

TABLE 109 ROW: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2019–2022 (USD MILLION)

TABLE 110 ROW: EMISSION MONITORING SYSTEM MARKET, BY INDUSTRY, 2023–2028 (USD MILLION)

10.5.2 GCC

10.5.2.1 Strong presence of oil & gas industry players to propel market

10.5.3 SOUTH AMERICA

10.5.3.1 Growing emphasis on reduction of greenhouse gas emissions to fuel adoption of EMS

10.5.4 REST OF MIDDLE EAST & AFRICA

11 COMPETITIVE LANDSCAPE

11.1 INTRODUCTION

11.2 STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 111 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS

11.3 TOP FIVE COMPANY REVENUE ANALYSIS

FIGURE 51 EMISSION MONITORING SYSTEM MARKET: REVENUE ANALYSIS OF TOP FIVE PLAYERS, 2018–2022

11.4 MARKET SHARE ANALYSIS

TABLE 112 EMISSION MONITORING SYSTEM MARKET: DEGREE OF COMPETITION, 2022

FIGURE 52 INDUSTRY CONCENTRATION, 2022

11.5 COMPANY EVALUATION MATRIX

11.5.1 STARS

11.5.2 EMERGING LEADERS

11.5.3 PERVASIVE PLAYERS

11.5.4 PARTICIPANTS

FIGURE 53 EMISSION MONITORING SYSTEM MARKET: COMPANY EVALUATION MATRIX, 2022

11.5.5 COMPANY FOOTPRINT

TABLE 113 OVERALL COMPANY FOOTPRINT

TABLE 114 APPLICATION: COMPANY FOOTPRINT

TABLE 115 REGIONAL: COMPANY FOOTPRINT

11.6 STARTUP/SME EVALUATION MATRIX

11.6.1 PROGRESSIVE COMPANIES

11.6.2 RESPONSIVE COMPANIES

11.6.3 DYNAMIC COMPANIES

11.6.4 STARTING BLOCKS

FIGURE 54 EMISSION MONITORING SYSTEM MARKET: STARTUP/SME EVALUATION MATRIX, 2022

11.6.5 COMPETITIVE BENCHMARKING

TABLE 116 EMISSION MONITORING SYSTEM MARKET: DETAILED LIST OF KEY STARTUPS/SMES

TABLE 117 EMISSION MONITORING SYSTEM MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

11.7 COMPETITIVE SCENARIOS AND TRENDS

11.7.1 EMISSION MONITORING SYSTEM MARKET: PRODUCT LAUNCHES

11.7.2 EMISSION MONITORING SYSTEM MARKET: DEALS

12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

12.1 KEY PLAYERS

12.1.1 ABB

TABLE 118 ABB: COMPANY OVERVIEW

FIGURE 55 ABB: COMPANY SNAPSHOT

TABLE 119 ABB: PRODUCTS OFFERED

TABLE 120 ABB: PRODUCT LAUNCHES

12.1.2 AMETEK. INC.

TABLE 121 AMETEK. INC.: COMPANY OVERVIEW

FIGURE 56 AMETEK. INC.: COMPANY SNAPSHOT

TABLE 122 AMETEK. INC.: PRODUCTS OFFERED

TABLE 123 AMETEK. INC.: PRODUCT LAUNCHES

TABLE 124 AMETEK. INC.: DEALS

12.1.3 EMERSON ELECTRIC CO.

TABLE 125 EMERSON ELECTRIC CO.: COMPANY OVERVIEW

FIGURE 57 EMERSON ELECTRIC CO.: COMPANY SNAPSHOT

TABLE 126 EMERSON ELECTRIC CO.: PRODUCTS OFFERED

TABLE 127 EMERSON ELECTRIC CO.: PRODUCT LAUNCHES

12.1.4 SIEMENS

TABLE 128 SIEMENS: COMPANY OVERVIEW

FIGURE 58 SIEMENS: COMPANY SNAPSHOT

TABLE 129 SIEMENS: PRODUCTS OFFERED

TABLE 130 SIEMENS: DEALS

12.1.5 THERMO FISHER SCIENTIFIC INC.

TABLE 131 THERMO FISHER SCIENTIFIC INC.: COMPANY OVERVIEW

FIGURE 59 THERMO FISHER SCIENTIFIC INC.: COMPANY SNAPSHOT

TABLE 132 THERMO FISHER SCIENTIFIC INC.: PRODUCTS OFFERED**12.1.6 BAKER HUGHES COMPANY****TABLE 133 BAKER HUGHES COMPANY: COMPANY OVERVIEW****FIGURE 60 BAKER HUGHES COMPANY: COMPANY SNAPSHOT****TABLE 134 BAKER HUGHES COMPANY: PRODUCTS OFFERED****12.1.7 FUJI ELECTRIC CO., LTD.****TABLE 135 FUJI ELECTRIC CO., LTD.: COMPANY OVERVIEW****FIGURE 61 FUJI ELECTRIC CO., LTD.: COMPANY SNAPSHOT****TABLE 136 FUJI ELECTRIC CO., LTD.: PRODUCTS OFFERED****12.1.8 HONEYWELL INTERNATIONAL INC.****TABLE 137 HONEYWELL INTERNATIONAL INC.: COMPANY OVERVIEW****FIGURE 62 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT****TABLE 138 HONEYWELL INTERNATIONAL INC.: PRODUCTS OFFERED****12.1.9 HORIBA, LTD.****TABLE 139 HORIBA, LTD.: COMPANY OVERVIEW****FIGURE 63 HORIBA, LTD.: COMPANY SNAPSHOT****TABLE 140 HORIBA, LTD.: PRODUCTS OFFERED****TABLE 141 HORIBA, LTD.: DEALS****12.1.10 SICK AG****TABLE 142 SICK AG: COMPANY OVERVIEW****FIGURE 64 SICK AG: COMPANY SNAPSHOT****TABLE 143 SICK AG: PRODUCTS OFFERED****12.1.11 SPECTRIS****TABLE 144 SPECTRIS: COMPANY OVERVIEW****FIGURE 65 SPECTRIS: COMPANY SNAPSHOT****TABLE 145 SPECTRIS: PRODUCTS OFFERED****TABLE 146 SPECTRIS: PRODUCT LAUNCHES****12.1.12 TELEDYNE TECHNOLOGIES INCORPORATED****TABLE 147 TELEDYNE TECHNOLOGIES INCORPORATED: COMPANY OVERVIEW****FIGURE 66 TELEDYNE TECHNOLOGIES INCORPORATED: COMPANY SNAPSHOT****TABLE 148 TELEDYNE TECHNOLOGIES INCORPORATED: PRODUCTS OFFERED****TABLE 149 TELEDYNE TECHNOLOGIES INCORPORATED: DEALS****12.2 OTHER PLAYERS****12.2.1 ACOEM****12.2.2 CHEMTROLS INDUSTRIES PVT. LTD.****12.2.3 CISCO****12.2.4 DURAG GROUP****12.2.5 ENVEA****12.2.6 GASMET TECHNOLOGIES OY**

12.2.7 HANGZHOU CHUNLAI TECHNOLOGY CO., LTD.

12.2.8 OPSIS AB

12.2.9 PROTEA LTD

12.2.10 TECNOVA HT SRL

12.2.11 TRACE

12.2.12 TSI

*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

13 ADJACENT AND RELATED MARKETS

13.1 INTRODUCTION

13.2 SMART SENSORS MARKET, BY TECHNOLOGY

13.2.1 INTRODUCTION

TABLE 150 SMART SENSORS MARKET, BY TECHNOLOGY, 2018–2021 (USD BILLION)

TABLE 151 SMART SENSORS MARKET, BY TECHNOLOGY, 2022–2027 (USD BILLION)

13.2.2 MAJOR PACKAGING TYPES CONSIDERED IN SMART SENSORS MARKET
TABLE 152 TECHNICAL FEATURES OF SYSTEM-IN-PACKAGE (SIP) AND SYSTEM-ON-CHIP (SOC)

13.2.3 MEMS TECHNOLOGY

13.2.3.1 Increasing adoption of MEMS technology-based smart sensors in various process industries to boost market growth

TABLE 153 MEMS TECHNOLOGY: SMART SENSORS MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 154 MEMS TECHNOLOGY: SMART SENSORS MARKET, BY TYPE, 2022–2027 (USD MILLION)

13.2.4 CMOS TECHNOLOGY

13.2.4.1 Characteristics such as low static power consumption and high noise immunity to drive demand for CMOS technology

TABLE 155 CMOS TECHNOLOGY: SMART SENSORS MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 156 CMOS TECHNOLOGY: SMART SENSORS MARKET, BY TYPE, 2022–2027 (USD MILLION)

14 APPENDIX

14.1 INSIGHTS FROM INDUSTRY EXPERTS

14.2 DISCUSSION GUIDE

14.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

14.4 CUSTOMIZATION OPTIONS

14.5 RELATED REPORTS

14.6 AUTHOR DETAILS

About

According to the new market research report "Emission Monitoring Systems Market by System Type (CEMS, PEMS), Offering (Hardware, Software, Services), Industry (Power Plants & Combustion, Oil & Gas, Chemicals, Petrochemicals, Refineries, & Fertilizers), and Region - Global Forecast to 2025", the emission monitoring systems market is estimated to reach USD 4.44 Billion by 2025 from USD 2.39 Billion in 2018, at a CAGR of 9.3% between 2018 and 2025. Factors that are driving the emission monitoring systems market include stringent legal and environmental regulations, increased awareness about environmental protection, increasing health and safety issues, and growing use of oil & gas and petrochemicals.

Major players involved in the emission monitoring systems market include

ABB (Switzerland)

AMETEK (US)

Emerson (US)

General Electric (US)

Siemens (Germany)

Parker Hannifin (US)

Rockwell Automation (US)

SICK (Germany)

Teledyne Technologies (US)

Thermo Fisher (US)

CEMS expected to lead the emission monitoring systems market between 2018 and 2025

Standards related to emissions set by various government organizations, such as United States Environmental Protection Agency (US EPA), enforced companies to adopt emission monitoring systems to track levels of emissions. CEMS is used in industries where continuous monitoring of emissions is mandatory. CEMSs consist of gas analyzers, gas sampling systems, temperature, flow, and opacity monitors, and data acquisition systems. CEMS demonstrates the environmental regulatory compliance of air pollutants that are emitted from industrial sources.

Hardware expected to lead the emission monitoring systems market

Hardware plays a vital role in an emission monitoring system for collecting data. The importance of hardware is determined by the type of emission monitoring system. For instance, CEMS has more dependency on hardware for operations, whereas PEMS is a software-based system and uses hardware components for analyzing pressure, temperature, and other parameters. Primary hardware components include gas analyzer, gas sampling system, flow and opacity monitor, sample probe, sample line, data controller, and filter.

Oil & gas industry expected to grow at the highest CAGR between 2018 and 2025 in the emission monitoring systems market

Various gases emitted during the extraction of oil & gas are hazardous and dangerous to the environment. Emission monitoring systems are used in the oil & gas industry to minimize emissions and measure them continuously. In the oil & gas industry, emission monitoring systems are used to gather data required for reporting emissions to government authorities. The authorities have issued guidelines and regulations to estimate and control emissions.

APAC expected to be the largest market for emission monitoring systems during the forecast period

APAC is expected to lead the emission monitoring systems market between 2018 and 2025. The growth is attributed to the rapid industrialization in China and India is expected to fuel the emission monitoring systems market in APAC. The rising concerns related to the air quality in China is also a major factor driving the adoption of emission monitoring systems. The growth of manufacturing and processing industries under the Make in India program is expected to fuel the adoption of emission monitoring systems in India.

I would like to order

Product name: Emission Monitoring System Market by System Type (CEMS and PEMS), Device Type (Gas Analyzers, Flow & Opacity Monitors, Sample Probes, Data Controllers, Filters), Software, Services, Industry and Region - Global Forecast to 2028

Product link: <https://marketpublishers.com/r/E136749CA72EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/E136749CA72EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970