

Asia Pacific Oxy-fuel Combustion Technology Market Size and Forecast (2021 - 2031)

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Abstracts

The Asia Pacific Oxy-fuel Combustion Technology Market is projected to grow significantly, with an expected market size of US\$ 201.7 million by 2031, up from US\$ 111.5 million in 2024. This growth represents a compound annual growth rate (CAGR) of 9.1% from 2025 to 2031.

Executive Summary and Market Analysis

The oxy-fuel combustion technology market in the Asia Pacific region is categorized into several key countries, including India, China, Japan, Australia, South Korea, and other nations within the region. The presence of diverse manufacturing sectors such as electronics, chemicals, textiles, automobiles, and power generation has led to a surge in manufacturing spending across these countries. This increase is expected to continue, driving the demand for oxy-fuel combustion technology, particularly in response to the need for reducing hazardous gas emissions.

Developing economies like India, Thailand, Vietnam, Singapore, Taiwan, and New Zealand are gradually adopting advanced manufacturing technologies. These countries are focusing on mitigating carbon emissions in their industrial operations, which is a significant factor propelling the growth of the oxy-fuel combustion technology market. The emphasis on environmental sustainability in manufacturing processes is fostering the development of a modernized and standardized manufacturing sector in the Asia Pacific, further fueling the demand for oxy-fuel combustion technology.

Strategic Insights

Market Segmentation Analysis

The Asia Pacific Oxy-fuel Combustion Technology Market is segmented based on offerings and industry. In terms of offerings, the market is divided into Solutions and Services, with the Solutions segment leading the market in 2024. When categorized by industry, the market includes Oil and Gas, Power Generation, Manufacturing, Metals and Mining, and Others, with the Power Generation segment also dominating in 2024.

Market Outlook

The rising levels of air pollution in countries such as India, China, Mexico, Malaysia, Russia, Brazil, and South Africa are prompting governments and industries to take necessary actions. According to the World Bank, air pollution is responsible for approximately 33,000 deaths annually in Mexico, with industrial air pollution accounting for around 20,000 of these fatalities. In Mexico, air pollution is a critical issue, contributing to nearly one-fifth of all deaths, ranking as the eighth leading cause of death, following unhealthy diet, obesity, high blood pressure, and substance abuse.

Particularly concerning is PM2.5, a hazardous type of airborne particle that can deeply penetrate the lungs. The World Health Organization (WHO) has established a guideline of 10 micrograms of PM2.5 per cubic meter of air for average outdoor ambient air pollution. Alarmingly, India has the highest levels of ambient PM2.5 globally, followed closely by Nepal. The increasing concerns regarding the need to minimize PM2.5 and other industrial gas emissions to mitigate their environmental and health impacts are expected to drive significant demand for oxy-fuel combustion technology in the coming years.

Country Insights

The Asia Pacific Oxy-fuel Combustion Technology Market is further segmented by country, including Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. Notably, China held the largest market share in 2024.

China is the world's largest emitter of CO₂, and both the government and various companies are actively pursuing initiatives to reduce their carbon footprint. For instance, in March 2022, Shaanxi Yanchang Petroleum, a Chinese exploration and production firm, announced plans to reduce its carbon emissions through Carbon Capture and Storage (CCS) technology. This initiative aims to establish a CO₂ capture capacity of approximately 5 million metric tons in the Yanchang field in a phased approach. Additionally, during the 75th session of the United Nations General Assembly in

September 2020, the Chinese government declared its goal to peak CO₂ emissions by 2030 and achieve carbon neutrality by 2060. Collaborative efforts among the Ministry of Science and Technology, the Ministry of Ecology and Environment, and the National Development and Reform Commission are enhancing policies and research related to Carbon Capture, Utilization, and Storage (CCUS), thereby promoting the adoption of oxy-fuel combustion technologies in China.

Company Profiles

Key players in the Asia Pacific Oxy-fuel Combustion Technology Market include Air Liquide, Encon Thermal Engineers Pvt Ltd, Falorni Gianfranco SRL, Jupiter Oxygen Corp, Linde Plc, Heidelberg Materials AG, ESA SpA, Messer SE & Co KGaA, Babcock & Wilcox Enterprises Inc, and Air Products and Chemicals Inc. These companies are employing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their product offerings and increase their market share.

In conclusion, the Asia Pacific Oxy-fuel Combustion Technology Market is poised for substantial growth driven by increasing environmental concerns, regulatory pressures, and advancements in manufacturing technologies aimed at reducing emissions.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. OXY-FUEL COMBUSTION TECHNOLOGY MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
- 4.4 List of Vendors in the Value Chain

5. ASIA PACIFIC OXY-FUEL COMBUSTION TECHNOLOGY MARKET – KEY MARKET DYNAMICS

- 5.1 Market Drivers
- 5.2 Market Restraints
- 5.3 Market Opportunities
- 5.4 Future Trends
- 5.5 Impact of Drivers and Restraints:

6. OXY-FUEL COMBUSTION TECHNOLOGY MARKET - ASIA PACIFIC MARKET

ANALYSIS

6.1 Asia Pacific Oxy-fuel Combustion Technology Market Revenue (US\$ Million), 2024 – 2031

6.2 Asia Pacific Oxy-fuel Combustion Technology Market Forecast and Analysis

7. ASIA PACIFIC OXY-FUEL COMBUSTION TECHNOLOGY MARKET REVENUE ANALYSIS – BY OFFERINGS

7.1 Solution

7.1.1 Overview

7.1.2 Solution: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

7.2 Services

7.2.1 Overview

7.2.2 Services: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

8. ASIA PACIFIC OXY-FUEL COMBUSTION TECHNOLOGY MARKET REVENUE ANALYSIS – BY INDUSTRY

8.1 Oil and Gas

8.1.1 Overview

8.1.2 Oil and Gas: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

8.2 Power Generation

8.2.1 Overview

8.2.2 Power Generation: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

8.3 Manufacturing

8.3.1 Overview

8.3.2 Manufacturing: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

8.4 Metals and Mining

8.4.1 Overview

8.4.2 Metals and Mining: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

9. ASIA PACIFIC OXY-FUEL COMBUSTION TECHNOLOGY MARKET – COUNTRY ANALYSIS

9.1 Asia Pacific

9.1.1 Asia Pacific Oxy-fuel Combustion Technology Market Revenue and Forecast and Analysis – by Country

9.1.1.1 Asia Pacific Oxy-fuel Combustion Technology Market Revenue and Forecast and Analysis – by Country

9.1.2.2 Australia: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

9.1.2.2.1 Australia: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Offerings

9.1.2.2.2 Australia: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Industry

9.2.3.3 China: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

9.2.3.3.1 China: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Offerings

9.2.3.3.2 China: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Industry

9.3.4.4 India: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

9.3.4.4.1 India: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Offerings

9.3.4.4.2 India: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Industry

9.4.5.5 Japan: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

9.4.5.5.1 Japan: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Offerings

9.4.5.5.2 Japan: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Industry

9.5.6.6 South Korea: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

9.5.6.6.1 South Korea: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Offerings

9.5.6.6.2 South Korea: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Industry

9.6.7.7 Rest of Asia Pacific: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

9.6.7.7.1 Rest of Asia Pacific: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Offerings

9.6.7.7.2 Rest of Asia Pacific: Asia Pacific Oxy-fuel Combustion Technology Market Share – by Industry

10 COMPETITIVE LANDSCAPE

10.1 Heat Map Analysis by Key Players

10.2 Company Positioning & Concentration

11 INDUSTRY LANDSCAPE

11.1 Overview

11.2 New Product Development

11.3 Merger and Acquisition

11.4 Other Strategic Developments

12 COMPANY PROFILES

12.1 Air Liquide

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 Encon Thermal Engineers Pvt Ltd

12.2.1 Key Facts

12.2.2 Business Description

12.2.3 Products and Services

12.2.4 Financial Overview

12.2.5 SWOT Analysis

12.2.6 Key Developments

12.3 Falorni Gianfranco SRL

12.3.1 Key Facts

- 12.3.2 Business Description
- 12.3.3 Products and Services
- 12.3.4 Financial Overview
- 12.3.5 SWOT Analysis
- 12.3.6 Key Developments
- 12.4 Jupiter Oxygen Corp
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments
- 12.5 Linde Plc
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Heidelberg Materials AG
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 ESA SpA
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments
- 12.8 Messer SE & Co KGaA
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis

12.8.6 Key Developments

12.9 Babcock & Wilcox Enterprises Inc

12.9.1 Key Facts

12.9.2 Business Description

12.9.3 Products and Services

12.9.4 Financial Overview

12.9.5 SWOT Analysis

12.9.6 Key Developments

12.10 Air Products and Chemicals Inc

12.10.1 Key Facts

12.10.2 Business Description

12.10.3 Products and Services

12.10.4 Financial Overview

12.10.5 SWOT Analysis

12.10.6 Key Developments

13. APPENDIX

13.1 About The Insight Partners

List Of Tables

LIST OF TABLES

- Table 1. Asia Pacific Oxy-fuel Combustion Technology Market Segmentation
- Table 2. List of Vendors
- Table 3. Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)
- Table 4. Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Offerings
- Table 5. Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Industry
- Table 6. Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Country
- Table 7. Australia: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Offerings
- Table 8. Australia: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Industry
- Table 9. China: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Offerings
- Table 10. China: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Industry
- Table 11. India: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Offerings
- Table 12. India: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Industry
- Table 13. Japan: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Offerings
- Table 14. Japan: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Industry
- Table 15. South Korea: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Offerings
- Table 16. South Korea: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Industry
- Table 17. Rest of Asia Pacific: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Offerings
- Table 18. Rest of Asia Pacific: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million) – by Industry
- Table 19. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

Figure 1. Asia Pacific Oxy-fuel Combustion Technology Market Segmentation – Country

Figure 2. PEST Analysis

Figure 3. Ecosystem: Oxy-fuel Combustion Technology Market

Figure 4. Asia Pacific Oxy-fuel Combustion Technology Market – Key Market Dynamics

Figure 5. Impact Analysis of Drivers and Restraints

Figure 6. Asia Pacific Oxy-fuel Combustion Technology Market Revenue (US\$ Million), 2024 – 2031

Figure 7. Asia Pacific Oxy-fuel Combustion Technology Market Share (%) – by Offerings, 2024 and 2031

Figure 8. Solution: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 9. Services: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 10. Asia Pacific Oxy-fuel Combustion Technology Market Share (%) – by Industry, 2024 and 2031

Figure 11. Oil and Gas: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 12. Power Generation: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 13. Manufacturing: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 14. Metals and Mining: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 15. Others: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 16. Asia Pacific Oxy-fuel Combustion Technology Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 17. Australia: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 18. China: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 19. India: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 20. Japan: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 21. South Korea: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 22. Rest of Asia Pacific: Asia Pacific Oxy-fuel Combustion Technology Market – Revenue and Forecast, 2021 – 2031 (US\$ Million)

Figure 23. Company Positioning & Concentration

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