

Global Carbon Dioxide (CO₂) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/C61FD0DC14F2EN.html>

Date: July 2025

Pages: 146

Price: US\$ 3,480.00 (Single User License)

ID: C61FD0DC14F2EN

Abstracts

According to our (Global Info Research) latest study, the global Carbon Dioxide (CO₂) market size was valued at US\$ 6600 million in 2024 and is forecast to a readjusted size of USD 9790 million by 2031 with a CAGR of 5.9% during review period.

Carbon dioxide is a chemical compound composed of one carbon and two oxygen atoms. It is often referred to by its formula CO₂. It is present in the Earth's atmosphere at a low concentration and acts as a greenhouse gas. In its solid state, it is called dry ice. It is a major component of the carbon cycle.

The major players in global carbon dioxide (CO₂) market include Linde, Air Liquid, Air Products and Chemicals, etc. The top 3 players occupy about 65% shares of the global market. Asia-Pacific is the main market, and occupies about 40% of the global market. 3N is the main type, with a share about 70%. Chemical is the main application, which holds a share about 50%.

This report is a detailed and comprehensive analysis for global Carbon Dioxide (CO₂) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Carbon Dioxide (CO₂) market size and forecasts, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (US\$/MT), 2020-2031

Global Carbon Dioxide (CO₂) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (US\$/MT), 2020-2031

Global Carbon Dioxide (CO₂) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (US\$/MT), 2020-2031

Global Carbon Dioxide (CO₂) market shares of main players, shipments in revenue (\$ Million), sales quantity (K MT), and ASP (US\$/MT), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Carbon Dioxide (CO₂)
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Carbon Dioxide (CO₂) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Linde, Air Liquid, Air Products and Chemicals, Taiyo Nippon Sanso, Messer Group, India Glycols, SOL Group, Air Water, Hunan Kaimeite Gases, Gulf Cryo, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Carbon Dioxide (CO₂) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Below 3N

3N-4N

Above 4N

Market segment by Application

Food and Beverages

Chemical

Medical

Metal

Frozen and Refrigerated

Others

Major players covered

Linde

Air Liquid

Air Products and Chemicals

Taiyo Nippon Sanso

Messer Group

India Glycols

SOL Group

Air Water

Hunan Kaimeite Gases

Gulf Cryo

Yulong gas

Jinhong Gas Shares

Jiangsu Huayang liquid carbon

Gabardine gas

Yankuang Guohong Chemical Co

Shandong Yingxuan Industry

Dehua chemicals

Cryogenic energy

Dongguang chemical

Jilin Baicheng gas

Union chemical industry

Ke Yi Gas Shares

HaoYuan chemical

Nanjing Oil Refinery

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Dioxide (CO₂) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Dioxide (CO₂), with price, sales quantity, revenue, and global market share of Carbon Dioxide (CO₂) from 2020 to 2025.

Chapter 3, the Carbon Dioxide (CO₂) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Dioxide (CO₂) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Carbon Dioxide (CO₂) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Dioxide (CO₂).

Chapter 14 and 15, to describe Carbon Dioxide (CO₂) sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Carbon Dioxide (CO₂) Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Below 3N

1.3.3 3N-4N

1.3.4 Above 4N

1.4 Market Analysis by Application

1.4.1 Overview: Global Carbon Dioxide (CO₂) Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Food and Beverages

1.4.3 Chemical

1.4.4 Medical

1.4.5 Metal

1.4.6 Frozen and Refrigerated

1.4.7 Others

1.5 Global Carbon Dioxide (CO₂) Market Size & Forecast

1.5.1 Global Carbon Dioxide (CO₂) Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Carbon Dioxide (CO₂) Sales Quantity (2020-2031)

1.5.3 Global Carbon Dioxide (CO₂) Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Linde

2.1.1 Linde Details

2.1.2 Linde Major Business

2.1.3 Linde Carbon Dioxide (CO₂) Product and Services

2.1.4 Linde Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Linde Recent Developments/Updates

2.2 Air Liquid

2.2.1 Air Liquid Details

2.2.2 Air Liquid Major Business

2.2.3 Air Liquid Carbon Dioxide (CO₂) Product and Services

2.2.4 Air Liquid Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Air Liquid Recent Developments/Updates

2.3 Air Products and Chemicals

2.3.1 Air Products and Chemicals Details

2.3.2 Air Products and Chemicals Major Business

2.3.3 Air Products and Chemicals Carbon Dioxide (CO₂) Product and Services

2.3.4 Air Products and Chemicals Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Air Products and Chemicals Recent Developments/Updates

2.4 Taiyo Nippon Sanso

2.4.1 Taiyo Nippon Sanso Details

2.4.2 Taiyo Nippon Sanso Major Business

2.4.3 Taiyo Nippon Sanso Carbon Dioxide (CO₂) Product and Services

2.4.4 Taiyo Nippon Sanso Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Taiyo Nippon Sanso Recent Developments/Updates

2.5 Messer Group

2.5.1 Messer Group Details

2.5.2 Messer Group Major Business

2.5.3 Messer Group Carbon Dioxide (CO₂) Product and Services

2.5.4 Messer Group Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Messer Group Recent Developments/Updates

2.6 India Glycols

2.6.1 India Glycols Details

2.6.2 India Glycols Major Business

2.6.3 India Glycols Carbon Dioxide (CO₂) Product and Services

2.6.4 India Glycols Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 India Glycols Recent Developments/Updates

2.7 SOL Group

2.7.1 SOL Group Details

2.7.2 SOL Group Major Business

2.7.3 SOL Group Carbon Dioxide (CO₂) Product and Services

2.7.4 SOL Group Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 SOL Group Recent Developments/Updates

2.8 Air Water

- 2.8.1 Air Water Details
- 2.8.2 Air Water Major Business
- 2.8.3 Air Water Carbon Dioxide (CO₂) Product and Services
- 2.8.4 Air Water Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Air Water Recent Developments/Updates
- 2.9 Hunan Kaimeite Gases
 - 2.9.1 Hunan Kaimeite Gases Details
 - 2.9.2 Hunan Kaimeite Gases Major Business
 - 2.9.3 Hunan Kaimeite Gases Carbon Dioxide (CO₂) Product and Services
 - 2.9.4 Hunan Kaimeite Gases Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Hunan Kaimeite Gases Recent Developments/Updates
- 2.10 Gulf Cryo
 - 2.10.1 Gulf Cryo Details
 - 2.10.2 Gulf Cryo Major Business
 - 2.10.3 Gulf Cryo Carbon Dioxide (CO₂) Product and Services
 - 2.10.4 Gulf Cryo Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 Gulf Cryo Recent Developments/Updates
- 2.11 Yulong gas
 - 2.11.1 Yulong gas Details
 - 2.11.2 Yulong gas Major Business
 - 2.11.3 Yulong gas Carbon Dioxide (CO₂) Product and Services
 - 2.11.4 Yulong gas Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 Yulong gas Recent Developments/Updates
- 2.12 Jinhong Gas Shares
 - 2.12.1 Jinhong Gas Shares Details
 - 2.12.2 Jinhong Gas Shares Major Business
 - 2.12.3 Jinhong Gas Shares Carbon Dioxide (CO₂) Product and Services
 - 2.12.4 Jinhong Gas Shares Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Jinhong Gas Shares Recent Developments/Updates
- 2.13 Jiangsu Huayang liquid carbon
 - 2.13.1 Jiangsu Huayang liquid carbon Details
 - 2.13.2 Jiangsu Huayang liquid carbon Major Business
 - 2.13.3 Jiangsu Huayang liquid carbon Carbon Dioxide (CO₂) Product and Services
 - 2.13.4 Jiangsu Huayang liquid carbon Carbon Dioxide (CO₂) Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 Jiangsu Huayang liquid carbon Recent Developments/Updates

2.14 Gabardine gas

2.14.1 Gabardine gas Details

2.14.2 Gabardine gas Major Business

2.14.3 Gabardine gas Carbon Dioxide (CO₂) Product and Services

2.14.4 Gabardine gas Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 Gabardine gas Recent Developments/Updates

2.15 Yankuang Guohong Chemical Co

2.15.1 Yankuang Guohong Chemical Co Details

2.15.2 Yankuang Guohong Chemical Co Major Business

2.15.3 Yankuang Guohong Chemical Co Carbon Dioxide (CO₂) Product and Services

2.15.4 Yankuang Guohong Chemical Co Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.15.5 Yankuang Guohong Chemical Co Recent Developments/Updates

2.16 Shandong Yingxuan Industry

2.16.1 Shandong Yingxuan Industry Details

2.16.2 Shandong Yingxuan Industry Major Business

2.16.3 Shandong Yingxuan Industry Carbon Dioxide (CO₂) Product and Services

2.16.4 Shandong Yingxuan Industry Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.16.5 Shandong Yingxuan Industry Recent Developments/Updates

2.17 Dehua chemicals

2.17.1 Dehua chemicals Details

2.17.2 Dehua chemicals Major Business

2.17.3 Dehua chemicals Carbon Dioxide (CO₂) Product and Services

2.17.4 Dehua chemicals Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.17.5 Dehua chemicals Recent Developments/Updates

2.18 Cryogenic energy

2.18.1 Cryogenic energy Details

2.18.2 Cryogenic energy Major Business

2.18.3 Cryogenic energy Carbon Dioxide (CO₂) Product and Services

2.18.4 Cryogenic energy Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.18.5 Cryogenic energy Recent Developments/Updates

2.19 Dongguang chemical

2.19.1 Dongguang chemical Details

- 2.19.2 Dongguang chemical Major Business
- 2.19.3 Dongguang chemical Carbon Dioxide (CO₂) Product and Services
- 2.19.4 Dongguang chemical Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.19.5 Dongguang chemical Recent Developments/Updates
- 2.20 Jilin Baicheng gas
 - 2.20.1 Jilin Baicheng gas Details
 - 2.20.2 Jilin Baicheng gas Major Business
 - 2.20.3 Jilin Baicheng gas Carbon Dioxide (CO₂) Product and Services
 - 2.20.4 Jilin Baicheng gas Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.20.5 Jilin Baicheng gas Recent Developments/Updates
- 2.21 Union chemical industry
 - 2.21.1 Union chemical industry Details
 - 2.21.2 Union chemical industry Major Business
 - 2.21.3 Union chemical industry Carbon Dioxide (CO₂) Product and Services
 - 2.21.4 Union chemical industry Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.21.5 Union chemical industry Recent Developments/Updates
- 2.22 Ke Yi Gas Shares
 - 2.22.1 Ke Yi Gas Shares Details
 - 2.22.2 Ke Yi Gas Shares Major Business
 - 2.22.3 Ke Yi Gas Shares Carbon Dioxide (CO₂) Product and Services
 - 2.22.4 Ke Yi Gas Shares Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.22.5 Ke Yi Gas Shares Recent Developments/Updates
- 2.23 HaoYuan chemical
 - 2.23.1 HaoYuan chemical Details
 - 2.23.2 HaoYuan chemical Major Business
 - 2.23.3 HaoYuan chemical Carbon Dioxide (CO₂) Product and Services
 - 2.23.4 HaoYuan chemical Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.23.5 HaoYuan chemical Recent Developments/Updates
- 2.24 Nanjing Oil Refinery
 - 2.24.1 Nanjing Oil Refinery Details
 - 2.24.2 Nanjing Oil Refinery Major Business
 - 2.24.3 Nanjing Oil Refinery Carbon Dioxide (CO₂) Product and Services
 - 2.24.4 Nanjing Oil Refinery Carbon Dioxide (CO₂) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.24.5 Nanjing Oil Refinery Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: CARBON DIOXIDE (CO₂) BY MANUFACTURER

3.1 Global Carbon Dioxide (CO₂) Sales Quantity by Manufacturer (2020-2025)

3.2 Global Carbon Dioxide (CO₂) Revenue by Manufacturer (2020-2025)

3.3 Global Carbon Dioxide (CO₂) Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Carbon Dioxide (CO₂) by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Carbon Dioxide (CO₂) Manufacturer Market Share in 2024

3.4.3 Top 6 Carbon Dioxide (CO₂) Manufacturer Market Share in 2024

3.5 Carbon Dioxide (CO₂) Market: Overall Company Footprint Analysis

3.5.1 Carbon Dioxide (CO₂) Market: Region Footprint

3.5.2 Carbon Dioxide (CO₂) Market: Company Product Type Footprint

3.5.3 Carbon Dioxide (CO₂) Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Carbon Dioxide (CO₂) Market Size by Region

4.1.1 Global Carbon Dioxide (CO₂) Sales Quantity by Region (2020-2031)

4.1.2 Global Carbon Dioxide (CO₂) Consumption Value by Region (2020-2031)

4.1.3 Global Carbon Dioxide (CO₂) Average Price by Region (2020-2031)

4.2 North America Carbon Dioxide (CO₂) Consumption Value (2020-2031)

4.3 Europe Carbon Dioxide (CO₂) Consumption Value (2020-2031)

4.4 Asia-Pacific Carbon Dioxide (CO₂) Consumption Value (2020-2031)

4.5 South America Carbon Dioxide (CO₂) Consumption Value (2020-2031)

4.6 Middle East & Africa Carbon Dioxide (CO₂) Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2031)

5.2 Global Carbon Dioxide (CO₂) Consumption Value by Type (2020-2031)

5.3 Global Carbon Dioxide (CO₂) Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2031)
- 6.2 Global Carbon Dioxide (CO₂) Consumption Value by Application (2020-2031)
- 6.3 Global Carbon Dioxide (CO₂) Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2031)
- 7.2 North America Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2031)
- 7.3 North America Carbon Dioxide (CO₂) Market Size by Country
 - 7.3.1 North America Carbon Dioxide (CO₂) Sales Quantity by Country (2020-2031)
 - 7.3.2 North America Carbon Dioxide (CO₂) Consumption Value by Country (2020-2031)
 - 7.3.3 United States Market Size and Forecast (2020-2031)
 - 7.3.4 Canada Market Size and Forecast (2020-2031)
 - 7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2031)
- 8.2 Europe Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2031)
- 8.3 Europe Carbon Dioxide (CO₂) Market Size by Country
 - 8.3.1 Europe Carbon Dioxide (CO₂) Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe Carbon Dioxide (CO₂) Consumption Value by Country (2020-2031)
 - 8.3.3 Germany Market Size and Forecast (2020-2031)
 - 8.3.4 France Market Size and Forecast (2020-2031)
 - 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
 - 8.3.6 Russia Market Size and Forecast (2020-2031)
 - 8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Carbon Dioxide (CO₂) Market Size by Region
 - 9.3.1 Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific Carbon Dioxide (CO₂) Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)

- 9.3.6 India Market Size and Forecast (2020-2031)
- 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
- 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2031)
- 10.2 South America Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2031)
- 10.3 South America Carbon Dioxide (CO₂) Market Size by Country
 - 10.3.1 South America Carbon Dioxide (CO₂) Sales Quantity by Country (2020-2031)
 - 10.3.2 South America Carbon Dioxide (CO₂) Consumption Value by Country (2020-2031)
 - 10.3.3 Brazil Market Size and Forecast (2020-2031)
 - 10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2031)
- 11.2 Middle East & Africa Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2031)
- 11.3 Middle East & Africa Carbon Dioxide (CO₂) Market Size by Country
 - 11.3.1 Middle East & Africa Carbon Dioxide (CO₂) Sales Quantity by Country (2020-2031)
 - 11.3.2 Middle East & Africa Carbon Dioxide (CO₂) Consumption Value by Country (2020-2031)
 - 11.3.3 Turkey Market Size and Forecast (2020-2031)
 - 11.3.4 Egypt Market Size and Forecast (2020-2031)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
 - 11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 Carbon Dioxide (CO₂) Market Drivers
- 12.2 Carbon Dioxide (CO₂) Market Restraints
- 12.3 Carbon Dioxide (CO₂) Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Carbon Dioxide (CO₂) and Key Manufacturers

13.2 Manufacturing Costs Percentage of Carbon Dioxide (CO₂)

13.3 Carbon Dioxide (CO₂) Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Carbon Dioxide (CO₂) Typical Distributors

14.3 Carbon Dioxide (CO₂) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Carbon Dioxide (CO₂) Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Carbon Dioxide (CO₂) Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Linde Basic Information, Manufacturing Base and Competitors

Table 4. Linde Major Business

Table 5. Linde Carbon Dioxide (CO₂) Product and Services

Table 6. Linde Carbon Dioxide (CO₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Linde Recent Developments/Updates

Table 8. Air Liquid Basic Information, Manufacturing Base and Competitors

Table 9. Air Liquid Major Business

Table 10. Air Liquid Carbon Dioxide (CO₂) Product and Services

Table 11. Air Liquid Carbon Dioxide (CO₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Air Liquid Recent Developments/Updates

Table 13. Air Products and Chemicals Basic Information, Manufacturing Base and Competitors

Table 14. Air Products and Chemicals Major Business

Table 15. Air Products and Chemicals Carbon Dioxide (CO₂) Product and Services

Table 16. Air Products and Chemicals Carbon Dioxide (CO₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Air Products and Chemicals Recent Developments/Updates

Table 18. Taiyo Nippon Sanso Basic Information, Manufacturing Base and Competitors

Table 19. Taiyo Nippon Sanso Major Business

Table 20. Taiyo Nippon Sanso Carbon Dioxide (CO₂) Product and Services

Table 21. Taiyo Nippon Sanso Carbon Dioxide (CO₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Taiyo Nippon Sanso Recent Developments/Updates

Table 23. Messer Group Basic Information, Manufacturing Base and Competitors

Table 24. Messer Group Major Business

Table 25. Messer Group Carbon Dioxide (CO₂) Product and Services

Table 26. Messer Group Carbon Dioxide (CO₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Messer Group Recent Developments/Updates
Table 28. India Glycols Basic Information, Manufacturing Base and Competitors
Table 29. India Glycols Major Business
Table 30. India Glycols Carbon Dioxide (CO ₂) Product and Services
Table 31. India Glycols Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 32. India Glycols Recent Developments/Updates
Table 33. SOL Group Basic Information, Manufacturing Base and Competitors
Table 34. SOL Group Major Business
Table 35. SOL Group Carbon Dioxide (CO ₂) Product and Services
Table 36. SOL Group Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 37. SOL Group Recent Developments/Updates
Table 38. Air Water Basic Information, Manufacturing Base and Competitors
Table 39. Air Water Major Business
Table 40. Air Water Carbon Dioxide (CO ₂) Product and Services
Table 41. Air Water Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 42. Air Water Recent Developments/Updates
Table 43. Hunan Kaimeite Gases Basic Information, Manufacturing Base and Competitors
Table 44. Hunan Kaimeite Gases Major Business
Table 45. Hunan Kaimeite Gases Carbon Dioxide (CO ₂) Product and Services
Table 46. Hunan Kaimeite Gases Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 47. Hunan Kaimeite Gases Recent Developments/Updates
Table 48. Gulf Cryo Basic Information, Manufacturing Base and Competitors
Table 49. Gulf Cryo Major Business
Table 50. Gulf Cryo Carbon Dioxide (CO ₂) Product and Services
Table 51. Gulf Cryo Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 52. Gulf Cryo Recent Developments/Updates
Table 53. Yulong gas Basic Information, Manufacturing Base and Competitors
Table 54. Yulong gas Major Business
Table 55. Yulong gas Carbon Dioxide (CO ₂) Product and Services
Table 56. Yulong gas Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 57. Yulong gas Recent Developments/Updates

Table 58. Jinhong Gas Shares Basic Information, Manufacturing Base and Competitors
Table 59. Jinhong Gas Shares Major Business
Table 60. Jinhong Gas Shares Carbon Dioxide (CO ₂) Product and Services
Table 61. Jinhong Gas Shares Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 62. Jinhong Gas Shares Recent Developments/Updates
Table 63. Jiangsu Huayang liquid carbon Basic Information, Manufacturing Base and Competitors
Table 64. Jiangsu Huayang liquid carbon Major Business
Table 65. Jiangsu Huayang liquid carbon Carbon Dioxide (CO ₂) Product and Services
Table 66. Jiangsu Huayang liquid carbon Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 67. Jiangsu Huayang liquid carbon Recent Developments/Updates
Table 68. Gabardine gas Basic Information, Manufacturing Base and Competitors
Table 69. Gabardine gas Major Business
Table 70. Gabardine gas Carbon Dioxide (CO ₂) Product and Services
Table 71. Gabardine gas Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 72. Gabardine gas Recent Developments/Updates
Table 73. Yankuang Guohong Chemical Co Basic Information, Manufacturing Base and Competitors
Table 74. Yankuang Guohong Chemical Co Major Business
Table 75. Yankuang Guohong Chemical Co Carbon Dioxide (CO ₂) Product and Services
Table 76. Yankuang Guohong Chemical Co Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 77. Yankuang Guohong Chemical Co Recent Developments/Updates
Table 78. Shandong Yingxuan Industry Basic Information, Manufacturing Base and Competitors
Table 79. Shandong Yingxuan Industry Major Business
Table 80. Shandong Yingxuan Industry Carbon Dioxide (CO ₂) Product and Services
Table 81. Shandong Yingxuan Industry Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 82. Shandong Yingxuan Industry Recent Developments/Updates
Table 83. Dehua chemicals Basic Information, Manufacturing Base and Competitors
Table 84. Dehua chemicals Major Business

Table 85. Dehua chemicals Carbon Dioxide (CO ₂) Product and Services
Table 86. Dehua chemicals Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 87. Dehua chemicals Recent Developments/Updates
Table 88. Cryogenic energy Basic Information, Manufacturing Base and Competitors
Table 89. Cryogenic energy Major Business
Table 90. Cryogenic energy Carbon Dioxide (CO ₂) Product and Services
Table 91. Cryogenic energy Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 92. Cryogenic energy Recent Developments/Updates
Table 93. Dongguang chemical Basic Information, Manufacturing Base and Competitors
Table 94. Dongguang chemical Major Business
Table 95. Dongguang chemical Carbon Dioxide (CO ₂) Product and Services
Table 96. Dongguang chemical Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 97. Dongguang chemical Recent Developments/Updates
Table 98. Jilin Baicheng gas Basic Information, Manufacturing Base and Competitors
Table 99. Jilin Baicheng gas Major Business
Table 100. Jilin Baicheng gas Carbon Dioxide (CO ₂) Product and Services
Table 101. Jilin Baicheng gas Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 102. Jilin Baicheng gas Recent Developments/Updates
Table 103. Union chemical industry Basic Information, Manufacturing Base and Competitors
Table 104. Union chemical industry Major Business
Table 105. Union chemical industry Carbon Dioxide (CO ₂) Product and Services
Table 106. Union chemical industry Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 107. Union chemical industry Recent Developments/Updates
Table 108. Ke Yi Gas Shares Basic Information, Manufacturing Base and Competitors
Table 109. Ke Yi Gas Shares Major Business
Table 110. Ke Yi Gas Shares Carbon Dioxide (CO ₂) Product and Services
Table 111. Ke Yi Gas Shares Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 112. Ke Yi Gas Shares Recent Developments/Updates
Table 113. HaoYuan chemical Basic Information, Manufacturing Base and Competitors
Table 114. HaoYuan chemical Major Business
Table 115. HaoYuan chemical Carbon Dioxide (CO ₂) Product and Services

Table 116. HaoYuan chemical Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 117. HaoYuan chemical Recent Developments/Updates
Table 118. Nanjing Oil Refinery Basic Information, Manufacturing Base and Competitors
Table 119. Nanjing Oil Refinery Major Business
Table 120. Nanjing Oil Refinery Carbon Dioxide (CO ₂) Product and Services
Table 121. Nanjing Oil Refinery Carbon Dioxide (CO ₂) Sales Quantity (K MT), Average Price (US\$/MT), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 122. Nanjing Oil Refinery Recent Developments/Updates
Table 123. Global Carbon Dioxide (CO ₂) Sales Quantity by Manufacturer (2020-2025) & (K MT)
Table 124. Global Carbon Dioxide (CO ₂) Revenue by Manufacturer (2020-2025) & (USD Million)
Table 125. Global Carbon Dioxide (CO ₂) Average Price by Manufacturer (2020-2025) & (US\$/MT)
Table 126. Market Position of Manufacturers in Carbon Dioxide (CO ₂), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
Table 127. Head Office and Carbon Dioxide (CO ₂) Production Site of Key Manufacturer
Table 128. Carbon Dioxide (CO ₂) Market: Company Product Type Footprint
Table 129. Carbon Dioxide (CO ₂) Market: Company Product Application Footprint
Table 130. Carbon Dioxide (CO ₂) New Market Entrants and Barriers to Market Entry
Table 131. Carbon Dioxide (CO ₂) Mergers, Acquisition, Agreements, and Collaborations
Table 132. Global Carbon Dioxide (CO ₂) Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR
Table 133. Global Carbon Dioxide (CO ₂) Sales Quantity by Region (2020-2025) & (K MT)
Table 134. Global Carbon Dioxide (CO ₂) Sales Quantity by Region (2026-2031) & (K MT)
Table 135. Global Carbon Dioxide (CO ₂) Consumption Value by Region (2020-2025) & (USD Million)
Table 136. Global Carbon Dioxide (CO ₂) Consumption Value by Region (2026-2031) & (USD Million)
Table 137. Global Carbon Dioxide (CO ₂) Average Price by Region (2020-2025) & (US\$/MT)
Table 138. Global Carbon Dioxide (CO ₂) Average Price by Region (2026-2031) & (US\$/MT)
Table 139. Global Carbon Dioxide (CO ₂) Sales Quantity by Type (2020-2025) & (K MT)
Table 140. Global Carbon Dioxide (CO ₂) Sales Quantity by Type (2026-2031) & (K MT)

Table 141. Global Carbon Dioxide (CO₂) Consumption Value by Type (2020-2025) & (USD Million)

Table 142. Global Carbon Dioxide (CO₂) Consumption Value by Type (2026-2031) & (USD Million)

Table 143. Global Carbon Dioxide (CO₂) Average Price by Type (2020-2025) & (US\$/MT)

Table 144. Global Carbon Dioxide (CO₂) Average Price by Type (2026-2031) & (US\$/MT)

Table 145. Global Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2025) & (K MT)

Table 146. Global Carbon Dioxide (CO₂) Sales Quantity by Application (2026-2031) & (K MT)

Table 147. Global Carbon Dioxide (CO₂) Consumption Value by Application (2020-2025) & (USD Million)

Table 148. Global Carbon Dioxide (CO₂) Consumption Value by Application (2026-2031) & (USD Million)

Table 149. Global Carbon Dioxide (CO₂) Average Price by Application (2020-2025) & (US\$/MT)

Table 150. Global Carbon Dioxide (CO₂) Average Price by Application (2026-2031) & (US\$/MT)

Table 151. North America Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2025) & (K MT)

Table 152. North America Carbon Dioxide (CO₂) Sales Quantity by Type (2026-2031) & (K MT)

Table 153. North America Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2025) & (K MT)

Table 154. North America Carbon Dioxide (CO₂) Sales Quantity by Application (2026-2031) & (K MT)

Table 155. North America Carbon Dioxide (CO₂) Sales Quantity by Country (2020-2025) & (K MT)

Table 156. North America Carbon Dioxide (CO₂) Sales Quantity by Country (2026-2031) & (K MT)

Table 157. North America Carbon Dioxide (CO₂) Consumption Value by Country (2020-2025) & (USD Million)

Table 158. North America Carbon Dioxide (CO₂) Consumption Value by Country (2026-2031) & (USD Million)

Table 159. Europe Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2025) & (K MT)

Table 160. Europe Carbon Dioxide (CO₂) Sales Quantity by Type (2026-2031) & (K

MT)

Table 161. Europe Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2025) & (K MT)

Table 162. Europe Carbon Dioxide (CO₂) Sales Quantity by Application (2026-2031) & (K MT)

Table 163. Europe Carbon Dioxide (CO₂) Sales Quantity by Country (2020-2025) & (K MT)

Table 164. Europe Carbon Dioxide (CO₂) Sales Quantity by Country (2026-2031) & (K MT)

Table 165. Europe Carbon Dioxide (CO₂) Consumption Value by Country (2020-2025) & (USD Million)

Table 166. Europe Carbon Dioxide (CO₂) Consumption Value by Country (2026-2031) & (USD Million)

Table 167. Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2025) & (K MT)

Table 168. Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity by Type (2026-2031) & (K MT)

Table 169. Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2025) & (K MT)

Table 170. Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity by Application (2026-2031) & (K MT)

Table 171. Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity by Region (2020-2025) & (K MT)

Table 172. Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity by Region (2026-2031) & (K MT)

Table 173. Asia-Pacific Carbon Dioxide (CO₂) Consumption Value by Region (2020-2025) & (USD Million)

Table 174. Asia-Pacific Carbon Dioxide (CO₂) Consumption Value by Region (2026-2031) & (USD Million)

Table 175. South America Carbon Dioxide (CO₂) Sales Quantity by Type (2020-2025) & (K MT)

Table 176. South America Carbon Dioxide (CO₂) Sales Quantity by Type (2026-2031) & (K MT)

Table 177. South America Carbon Dioxide (CO₂) Sales Quantity by Application (2020-2025) & (K MT)

Table 178. South America Carbon Dioxide (CO₂) Sales Quantity by Application (2026-2031) & (K MT)

Table 179. South America Carbon Dioxide (CO₂) Sales Quantity by Country (2020-2025) & (K MT)

Table 180. South America Carbon Dioxide (CO ₂) Sales Quantity by Country (2026-2031) & (K MT)
Table 181. South America Carbon Dioxide (CO ₂) Consumption Value by Country (2020-2025) & (USD Million)
Table 182. South America Carbon Dioxide (CO ₂) Consumption Value by Country (2026-2031) & (USD Million)
Table 183. Middle East & Africa Carbon Dioxide (CO ₂) Sales Quantity by Type (2020-2025) & (K MT)
Table 184. Middle East & Africa Carbon Dioxide (CO ₂) Sales Quantity by Type (2026-2031) & (K MT)
Table 185. Middle East & Africa Carbon Dioxide (CO ₂) Sales Quantity by Application (2020-2025) & (K MT)
Table 186. Middle East & Africa Carbon Dioxide (CO ₂) Sales Quantity by Application (2026-2031) & (K MT)
Table 187. Middle East & Africa Carbon Dioxide (CO ₂) Sales Quantity by Country (2020-2025) & (K MT)
Table 188. Middle East & Africa Carbon Dioxide (CO ₂) Sales Quantity by Country (2026-2031) & (K MT)
Table 189. Middle East & Africa Carbon Dioxide (CO ₂) Consumption Value by Country (2020-2025) & (USD Million)
Table 190. Middle East & Africa Carbon Dioxide (CO ₂) Consumption Value by Country (2026-2031) & (USD Million)
Table 191. Carbon Dioxide (CO ₂) Raw Material
Table 192. Key Manufacturers of Carbon Dioxide (CO ₂) Raw Materials
Table 193. Carbon Dioxide (CO ₂) Typical Distributors
Table 194. Carbon Dioxide (CO ₂) Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Carbon Dioxide (CO₂) Picture

Figure 2. Global Carbon Dioxide (CO₂) Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Carbon Dioxide (CO₂) Revenue Market Share by Type in 2024

Figure 4. Below 3N Examples

Figure 5. 3N-4N Examples

Figure 6. Above 4N Examples

Figure 7. Global Carbon Dioxide (CO₂) Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Global Carbon Dioxide (CO₂) Revenue Market Share by Application in 2024

Figure 9. Food and Beverages Examples

Figure 10. Chemical Examples

Figure 11. Medical Examples

Figure 12. Metal Examples

Figure 13. Frozen and Refrigerated Examples

Figure 14. Others Examples

Figure 15. Global Carbon Dioxide (CO₂) Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 16. Global Carbon Dioxide (CO₂) Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 17. Global Carbon Dioxide (CO₂) Sales Quantity (2020-2031) & (K MT)

Figure 18. Global Carbon Dioxide (CO₂) Price (2020-2031) & (US\$/MT)

Figure 19. Global Carbon Dioxide (CO₂) Sales Quantity Market Share by Manufacturer in 2024

Figure 20. Global Carbon Dioxide (CO₂) Revenue Market Share by Manufacturer in 2024

Figure 21. Producer Shipments of Carbon Dioxide (CO₂) by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 22. Top 3 Carbon Dioxide (CO₂) Manufacturer (Revenue) Market Share in 2024

Figure 23. Top 6 Carbon Dioxide (CO₂) Manufacturer (Revenue) Market Share in 2024

Figure 24. Global Carbon Dioxide (CO₂) Sales Quantity Market Share by Region (2020-2031)

Figure 25. Global Carbon Dioxide (CO₂) Consumption Value Market Share by Region (2020-2031)

Figure 26. North America Carbon Dioxide (CO₂) Consumption Value (2020-2031) &

(USD Million)

Figure 27. Europe Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 28. Asia-Pacific Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 29. South America Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 30. Middle East & Africa Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 31. Global Carbon Dioxide (CO₂) Sales Quantity Market Share by Type (2020-2031)

Figure 32. Global Carbon Dioxide (CO₂) Consumption Value Market Share by Type (2020-2031)

Figure 33. Global Carbon Dioxide (CO₂) Average Price by Type (2020-2031) & (US\$/MT)

Figure 34. Global Carbon Dioxide (CO₂) Sales Quantity Market Share by Application (2020-2031)

Figure 35. Global Carbon Dioxide (CO₂) Revenue Market Share by Application (2020-2031)

Figure 36. Global Carbon Dioxide (CO₂) Average Price by Application (2020-2031) & (US\$/MT)

Figure 37. North America Carbon Dioxide (CO₂) Sales Quantity Market Share by Type (2020-2031)

Figure 38. North America Carbon Dioxide (CO₂) Sales Quantity Market Share by Application (2020-2031)

Figure 39. North America Carbon Dioxide (CO₂) Sales Quantity Market Share by Country (2020-2031)

Figure 40. North America Carbon Dioxide (CO₂) Consumption Value Market Share by Country (2020-2031)

Figure 41. United States Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 42. Canada Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 43. Mexico Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 44. Europe Carbon Dioxide (CO₂) Sales Quantity Market Share by Type (2020-2031)

Figure 45. Europe Carbon Dioxide (CO₂) Sales Quantity Market Share by Application (2020-2031)

Figure 46. Europe Carbon Dioxide (CO₂) Sales Quantity Market Share by Country (2020-2031)

Figure 47. Europe Carbon Dioxide (CO₂) Consumption Value Market Share by Country (2020-2031)

Figure 48. Germany Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 49. France Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 50. United Kingdom Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 51. Russia Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 52. Italy Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 53. Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity Market Share by Type (2020-2031)

Figure 54. Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity Market Share by Application (2020-2031)

Figure 55. Asia-Pacific Carbon Dioxide (CO₂) Sales Quantity Market Share by Region (2020-2031)

Figure 56. Asia-Pacific Carbon Dioxide (CO₂) Consumption Value Market Share by Region (2020-2031)

Figure 57. China Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 58. Japan Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 59. South Korea Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 60. India Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 61. Southeast Asia Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 62. Australia Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 63. South America Carbon Dioxide (CO₂) Sales Quantity Market Share by Type (2020-2031)

Figure 64. South America Carbon Dioxide (CO₂) Sales Quantity Market Share by Application (2020-2031)

Figure 65. South America Carbon Dioxide (CO₂) Sales Quantity Market Share by Country (2020-2031)

Figure 66. South America Carbon Dioxide (CO₂) Consumption Value Market Share by

Country (2020-2031)

Figure 67. Brazil Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 68. Argentina Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 69. Middle East & Africa Carbon Dioxide (CO₂) Sales Quantity Market Share by Type (2020-2031)

Figure 70. Middle East & Africa Carbon Dioxide (CO₂) Sales Quantity Market Share by Application (2020-2031)

Figure 71. Middle East & Africa Carbon Dioxide (CO₂) Sales Quantity Market Share by Country (2020-2031)

Figure 72. Middle East & Africa Carbon Dioxide (CO₂) Consumption Value Market Share by Country (2020-2031)

Figure 73. Turkey Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 74. Egypt Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 75. Saudi Arabia Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 76. South Africa Carbon Dioxide (CO₂) Consumption Value (2020-2031) & (USD Million)

Figure 77. Carbon Dioxide (CO₂) Market Drivers

Figure 78. Carbon Dioxide (CO₂) Market Restraints

Figure 79. Carbon Dioxide (CO₂) Market Trends

Figure 80. Porters Five Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of Carbon Dioxide (CO₂) in 2024

Figure 82. Manufacturing Process Analysis of Carbon Dioxide (CO₂)

Figure 83. Carbon Dioxide (CO₂) Industrial Chain

Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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