

# Global CO<sub>2</sub> Capture Separation Membrane Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global CO<sub>2</sub> Capture Separation Membrane market size was valued at US\$ 441 million in 2024 and is forecast to a readjusted size of USD 653 million by 2031 with a CAGR of 5.7% during review period.

A CO<sub>2</sub> capture separation membrane is a specialized membrane technology designed to selectively separate carbon dioxide (CO<sub>2</sub>) from gas mixtures—most commonly from industrial emissions or natural gas streams. These membranes are made from polymeric, inorganic, or hybrid materials that allow CO<sub>2</sub> molecules to pass through faster than other gases like nitrogen (N<sub>2</sub>) or methane (CH<sub>4</sub>), based on differences in molecular size, solubility, or diffusivity.

This report is a detailed and comprehensive analysis for global CO<sub>2</sub> Capture Separation Membrane 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.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

## Key Features:

Global CO2 Capture Separation Membrane market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global CO2 Capture Separation Membrane market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global CO2 Capture Separation Membrane market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global CO2 Capture Separation Membrane market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 CO2 Capture Separation Membrane
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global CO2 Capture Separation Membrane 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 Evonik, Air Liquide, Air Products, UBE Corporation, Linde Engineering, Grasys, Airrane, Generon IGS, DMT International, MTR, etc.

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

### **Market Segmentation**

CO2 Capture Separation Membrane 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

Polymeric Membrane

Dense Metallic Membrane

Porous Inorganic Membrane

#### Market segment by Application

Carbon Capture and Storage (CCS)

Natural Gas Processing

Biogas Upgrading

Chemical

Others

#### Major players covered

Evonik

Air Liquide

Air Products

UBE Corporation

Linde Engineering

Grasys

Airrane

Generon IGS

DMT International

MTR

Fujifilm

Toray

BORSIG

SLB

Sumitomo Chemical

Honeywell

NGK Insulators

Tianbang

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 CO<sub>2</sub> Capture Separation Membrane product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CO<sub>2</sub> Capture Separation Membrane, with

price, sales quantity, revenue, and global market share of CO2 Capture Separation Membrane from 2020 to 2025.

Chapter 3, the CO2 Capture Separation Membrane competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CO2 Capture Separation Membrane 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 CO2 Capture Separation Membrane 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 CO2 Capture Separation Membrane.

Chapter 14 and 15, to describe CO2 Capture Separation Membrane sales channel, distributors, customers, research findings and conclusion.

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