

Global Carbon Dioxide Pipeline Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Carbon Dioxide Pipeline market size was valued at US\$ 1018 million in 2025 and is forecast to a readjusted size of US\$ 1575 million by 2032 with a CAGR of 6.8% during review period.

In 2025, global Carbon Dioxide Pipeline approximately 15,953 km, with an average global market price of around US\$ 62 per m. Gross margin is about 49%. The cost is 32 usd. The Production is about 18,000 km. Carbon Dioxide Pipelines are specialized pipelines designed to transport carbon dioxide (CO₂) over long distances, typically from industrial sources (such as power plants, refineries, or chemical factories) to storage sites or utilization locations. These pipelines are a key component of carbon capture, utilization, and storage (CCUS) systems, which aim to reduce CO₂ emissions by capturing and transporting CO₂ for either permanent storage (usually in geological formations) or for use in enhanced oil recovery (EOR) or other industrial processes.

1. Classification by CO₂ phase

CO₂ pipelines can be classified into gaseous CO₂ pipelines, liquid CO₂ pipelines, and supercritical CO₂ pipelines. Gaseous pipelines are mainly used for short-distance and low-pressure transport, while liquid pipelines serve medium-distance applications. Supercritical CO₂ pipelines dominate CCS projects due to high density, low volumetric flow rate, and superior transport efficiency.

2. Classification by application scenario

CO₂ pipelines can be categorised into industrial CO₂ pipelines, enhanced oil recovery

(EOR) pipelines, and CCS/CCUS pipelines. Industrial pipelines supply CO₂ for chemical and food industries, EOR pipelines inject CO₂ into oil fields to enhance production, and CCS/CCUS pipelines transport captured CO₂ to storage or utilisation sites, forming the backbone of carbon reduction infrastructure.

3. Classification by transport distance

From an engineering perspective, CO₂ pipelines can be divided into short-distance pipelines, medium-distance regional pipelines, and long-distance trunk pipelines. Short-distance systems often use gaseous or liquid CO₂, while medium and long-distance pipelines predominantly adopt supercritical CO₂ for economic efficiency.

4. Classification by operating pressure

CO₂ pipelines can be grouped into low-pressure, medium-pressure and high-pressure systems. High-pressure pipelines are required for liquid and supercritical CO₂ transport, typically operating at 8–20 MPa in large-scale CCS projects.

5. Classification by network configuration

Structurally, CO₂ pipelines include point-to-point pipelines, gathering networks, and trunk pipeline systems. Point-to-point pipelines directly connect emission sources to storage sites, while trunk networks integrate multiple sources and destinations, resembling future regional carbon transport grids.

This report is a detailed and comprehensive analysis for global Carbon Dioxide Pipeline 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 Pipeline market size and forecasts, in consumption value (\$ Million), sales quantity (Km), and average selling prices (US\$/Km), 2021-2032

Global Carbon Dioxide Pipeline market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (Km), and average selling prices (US\$/Km), 2021-2032

Global Carbon Dioxide Pipeline market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Km), and average selling prices (US\$/Km), 2021-2032

Global Carbon Dioxide Pipeline market shares of main players, shipments in revenue (\$ Million), sales quantity (Km), and ASP (US\$/Km), 2021-2026

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 Pipeline
- 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 Carbon Dioxide Pipeline 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 ExxonMobil, DNV, Tenaris, NOV, Europipe, Vallourec, Corinth Pipeworks, Mannesmann Line Pipe GmbH, Welspun Corp, TMK Group, etc.

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

Market Segmentation

Carbon Dioxide Pipeline market is split by Type and by Application. For the period 2021-2032, 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

Supercritical Phase Conveying Pipelines

Gas Phase Pipelines

Others

Market segment by Transport Medium

Gaseous CO₂ Pipeline

Liquid CO₂ Pipeline

Market segment by Pressure

Low Pressure

High Pressure

Medium Pressure

Market segment by Application

Food & Medical

Medical

Chemicals

Energy

Other

Major players covered

ExxonMobil

DNV

Tenaris

NOV

Europipe

Vallourec

Corinth Pipeworks

Mannesmann Line Pipe GmbH

Welspun Corp

TMK Group

Matr

Kinder Morgan, Inc.

Strohm

Navigator CO2 Ventures

Summit Carbon Solutions

Stupp Corporation

National Petroleum and Natural Gas Pipeline Network Group Co., Ltd.

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:

Global Carbon Dioxide Pipeline Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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

Chapter 2, to profile the top manufacturers of Carbon Dioxide Pipeline, with price, sales quantity, revenue, and global market share of Carbon Dioxide Pipeline from 2021 to 2026.

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

Chapter 4, the Carbon Dioxide Pipeline breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Carbon Dioxide Pipeline market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Pipeline.

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

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