

Global Carbon Dioxide Pipeline Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD952ABD055EEN.html>

Date: February 2026

Pages: 154

Price: US\$ 4,480.00 (Single User License)

ID: GD952ABD055EEN

Abstracts

The global Carbon Dioxide Pipeline market size is expected to reach \$ 1575 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

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 studies the global Carbon Dioxide Pipeline production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Dioxide Pipeline and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Dioxide Pipeline that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Dioxide Pipeline total production and demand, 2021-2032, (Km)

Global Carbon Dioxide Pipeline total production value, 2021-2032, (USD Million)

Global Carbon Dioxide Pipeline production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Km), (based on production site)

Global Carbon Dioxide Pipeline consumption by region & country, CAGR, 2021-2032 & (Km)

U.S. VS China: Carbon Dioxide Pipeline domestic production, consumption, key domestic manufacturers and share

Global Carbon Dioxide Pipeline production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Km)

Global Carbon Dioxide Pipeline production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Km)

Global Carbon Dioxide Pipeline production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Km)

This report profiles key players in the global Carbon Dioxide Pipeline market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Dioxide Pipeline market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Km) and average price (US\$/Km) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Dioxide Pipeline Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Dioxide Pipeline Market, Segmentation by Type:

Supercritical Phase Conveying Pipelines

Gas Phase Pipelines

Others

Global Carbon Dioxide Pipeline Market, Segmentation by Transport Medium:

Gaseous CO₂ Pipeline

Liquid CO₂ Pipeline

Global Carbon Dioxide Pipeline Market, Segmentation by Pressure:

Low Pressure

High Pressure

Medium Pressure

Global Carbon Dioxide Pipeline Market, Segmentation by Application:

Food & Medical

Medical

Chemicals

Energy

Other

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global Carbon Dioxide Pipeline market?
2. What is the demand of the global Carbon Dioxide Pipeline market?
3. What is the year over year growth of the global Carbon Dioxide Pipeline market?
4. What is the production and production value of the global Carbon Dioxide Pipeline market?
5. Who are the key producers in the global Carbon Dioxide Pipeline market?
6. What are the growth factors driving the market demand?

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