

# Global CO<sub>2</sub> Recovery System Market Growth 2026-2032

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## Abstracts

The global CO<sub>2</sub> Recovery System market size is predicted to grow from US\$ 343 million in 2025 to US\$ 984 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

A CO<sub>2</sub> Recovery System is a turnkey set of equipment that uses CO<sub>2</sub>-containing gas as feedstock and separates CO<sub>2</sub> from mixed gases through process units such as compression, cooling, absorption/adsorption, membrane separation, or cryogenic condensation, while completing dehydration, impurity removal, and purity upgrading, ultimately producing gaseous CO<sub>2</sub>, liquid CO<sub>2</sub>, or dry ice that can be directly stored, transported, or used. The system is mainly deployed in applications including fermentation and food & beverage, high-concentration process gas and by-product/off-gas streams, biogas and biomethane upgrading, and flue-gas recovery. Its core value lies in converting dispersed or low-value carbon-containing gas streams into marketable CO<sub>2</sub> products, enabling both resource utilization and emissions reduction. In 2025, global output of CO<sub>2</sub> recovery systems reached 973 units, with an average selling price of USD 359.8 thousand per unit.

The carbon dioxide (CO<sub>2</sub>) recovery system industry uses CO<sub>2</sub>-containing gases as feedstock and delivers gaseous CO<sub>2</sub>, liquid CO<sub>2</sub>, or dry ice through modules for separation, dehydration, impurity removal, and productization. It mainly serves fermentation and food & beverage, high-concentration process gas and by-product/off-gas streams, biogas and biomethane upgrading, and flue-gas recovery. The industry combines characteristics of industrial gas equipment and process separation equipment, with demand driven jointly by “resource utilization (cost reduction and supply assurance)” and “emissions constraints (compliance and demonstration).” Food-grade supply security and distributed recovery continue to support steady installations

of small-to-mid-size systems; high-concentration by-product/off-gas applications in chemicals, refining, and hydrogen value chains place greater emphasis on continuous operation and tight coupling with upstream units; flue-gas recovery is more sensitive to policy intensity, demonstration project cadence, and financing conditions, so orders tend to be project-based with phased and clustered deliveries.

From a regional perspective, Europe and North America have more mature value chains in food-grade recovery and biomethane upgrading, and projects tend to be delivered in a more standardized and modular manner. Japan is dominated by demonstration-oriented projects and refined applications under specific operating conditions. China is seeing faster growth in project density in by-product gas resource utilization and industrial-park scenarios. Regional differences are largely determined by emissions regulation, food-grade standards systems, CO<sub>2</sub> logistics radius, and supply-resilience requirements, which in turn shape system form factors (fixed installations vs. skid-mounted/containerized), product forms (gas/liquid/dry ice), and redundancy configuration levels. The competitive landscape features the coexistence of “international turnkey brands + regional manufacturers + niche application specialists,” with competition focused on energy consumption metrics, recovery rate and purity stability, lead time and localized service capability, and long-term operational reliability and reputation.

In terms of product structure and technology pathways, systems can be classified by output form into gaseous recovery systems, liquefaction recovery systems, and integrated dry-ice systems; and by core separation mechanism into chemical absorption, physical adsorption, membrane separation, and compression–condensation/cryogenic separation. In practice, most solutions adopt a combined architecture of “separation + compression + drying + purification + liquefaction/dry-ice production.” By application, fermentation and food & beverage emphasize food-grade impurity-spectrum control and stability; high-concentration process gas and by-product/off-gas emphasize continuity and system coupling; biogas upgrading emphasizes modularity, footprint, and ease of O&M; flue-gas recovery emphasizes economics and scalable capacity under high-flow, low-concentration conditions. Cost structure typically consists of the core separation unit, compression and refrigeration, drying and purification, storage and packaging, control systems, and skid piping/valves/instrumentation. Among these, compression/refrigeration and process equipment account for the largest share of the BOM, while valves/instrumentation and long-lead items significantly affect delivery lead times.

On the manufacturing side, “single-line capacity” is strongly constrained by the level of

standardization and the project-based nature of deliveries, and is generally limited. For standardized skid-mounted/containerized small-to-mid systems, single-line capacity is 10–30 sets delivered per year. For larger, more customized systems with higher non-standard content and more complex operating conditions, single-line capacity is 3–10 sets per year. For large flue-gas recovery units, project cycles are longer and design changes and interface coordination are heavier; a cadence of one set delivered every 1–3 years per line is more common. Gross margins show clear tiering: turnkey systems for food & beverage and fermentation recovery are 28%–42%; integrated dry-ice systems are 25%–38%; high-concentration process gas and by-product/off-gas recovery systems are 22%–35%; biogas-upgrading-related equipment is 20%–33%; and flue-gas recovery systems are 15%–28%. The equipment-side weighted average gross margin for the industry is 22%–34%. In the value chain, upstream includes compressors and refrigeration packages, heat exchangers and cold boxes, columns and packing, membrane materials and adsorbents, valves/instrumentation and control systems; midstream comprises turnkey system suppliers and integrated manufacturers; downstream end users include food & beverage, chemicals and refining, industrial gas companies, and biogas operators. Going forward, key trends will center on standardized skid packages, energy efficiency and heat-integration optimization, digital control and remote O&M compatibility, and continued productization of integrated liquefaction/dry-ice offerings. On the demand side, adoption will deepen in distributed resource-utilization and industrial-park scenarios, while flue-gas recovery is expected to move toward more stable commercial deliveries as demonstration experience accumulates and costs decline.

LP Information, Inc. (LPI) ' newest research report, the “CO2 Recovery System Industry Forecast” looks at past sales and reviews total world CO2 Recovery System sales in 2025, providing a comprehensive analysis by region and market sector of projected CO2 Recovery System sales for 2026 through 2032. With CO2 Recovery System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CO2 Recovery System industry.

This Insight Report provides a comprehensive analysis of the global CO2 Recovery System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on CO2 Recovery System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CO2 Recovery System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CO2 Recovery System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global CO2 Recovery System.

This report presents a comprehensive overview, market shares, and growth opportunities of CO2 Recovery System market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Chemical Absorption

Physical Adsorption

Membrane Separation

Compression and Condensation

Others

#### Segmentation by Form Factor:

Stationary

Mobile

#### Segmentation by Inlet CO2 Concentration:

High Concentration

Low Concentration

#### Segmentation by Application:

Flue Gas CO<sub>2</sub> Recovery (SGR)

Process/By-product Gas CO<sub>2</sub> Recovery (BPR)

Dry Ice Production and Related CO<sub>2</sub> Recovery

Fermentation and Food and Beverage CO<sub>2</sub> Recovery

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Asco Carbon Dioxide

Mitsubishi Heavy Industries

Bright Biomethane

GEA

Linde Engineering

Sumitomo Seika

Shell Cansolv

Cold Jet

Kinder Morgan

Fluor Corporation

Gulf Cryo

Super Cryogenic Systems

Pentair Haffmans

Chart Industries

Air Water

Taiyo Nippon Sanso

JFE Engineering

Mitsubishi Kakoki

JCCL

Kawasaki Heavy Industries

PRODEVAL

Steinecker

Mellcon Engineers Pvt.

Ashirwad Carbonics (India) Pvt Ltd.

COMTECSWISS AG

Separeco

Supercryo

Solveno Technologies

Steinecker GmbH

Tecno Project Industriale

Corosys

Hypro

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global CO2 Recovery System market?

What factors are driving CO2 Recovery System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do CO2 Recovery System market opportunities vary by end market size?

How does CO2 Recovery System break out by Type, by Application?

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