

Global Carbon Dioxide Gas Recovery Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Dioxide Gas Recovery Equipment market size is expected to reach \$ 986 million by 2032, rising at a market growth of 14.7% CAGR during the forecast period (2026-2032).

A Carbon Dioxide Gas Recovery Equipment refers to an integrated system that uses CO₂-containing gas streams as feed gas and, through unit operations such as compression, cooling, absorption/adsorption, membrane separation, or low-temperature condensation, separates CO₂ from mixed gases and completes dehydration, impurity removal, and purity upgrading, ultimately producing gaseous CO₂, liquid CO₂, or dry ice products that can be directly stored, transported, or utilized. This equipment is mainly applied in fermentation and food and beverage, high-concentration process and by-product gas, biogas and biomethane upgrading, and flue gas recovery scenarios. Its core value lies in converting dispersed or low-value CO₂-containing streams into marketable CO₂ products, enabling resource utilization while supporting emissions reduction. In 2025, sales of carbon dioxide recovery equipment were 973 units, with an average selling price of USD 359.8 thousand per unit.

The carbon dioxide (CO₂) recovery equipment industry uses CO₂-containing gas streams as feed gas and delivers gaseous CO₂, liquid CO₂, or dry ice through separation, dehydration, impurity removal, and productization units. It primarily serves fermentation and food & beverage, high-concentration process gas and by-product/off-gas streams, biogas and biomethane upgrading, and flue-gas recovery scenarios. The industry combines attributes of industrial gas equipment and process separation equipment, with demand driven by both “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, clustered deliveries.

From a regional perspective, Europe and North America have more mature value chains in food-grade recovery and biomethane upgrading, with projects leaning toward standardized and modular deliveries. Japan is dominated by demonstration-oriented projects and refined applications under specific operating conditions. China is seeing faster increases in project density in by-product gas resource utilization and industrial-park scenarios. Regional differences are largely shaped by emissions regulation, food-grade standards frameworks, CO₂ logistics radius, and supply resilience requirements, which in turn influence system form factors (fixed installations vs. skid-mounted/containerized), product forms (gas/liquid/dry ice), and redundancy configuration levels. The competitive landscape features a coexistence of “international turnkey brands + regional manufacturers + niche application specialists.” Competition centers on energy consumption metrics, recovery rate and purity stability, lead time and localized service capability, and proven reliability in long-term operation.

In terms of product structure and technology pathways, systems can be categorized 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 is typically composed 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 BOM share, while valves/instrumentation and long-lead equipment significantly affect delivery lead times.

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

of standardization and the project-based nature of deliveries, and is therefore 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 are clearly tiered: turnkey systems for food & beverage and fermentation 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 industry's equipment-side weighted average gross margin is 22%–34%. Upstream supply includes compressors and refrigeration packages, heat exchangers and cold boxes, columns and packing, membrane materials and adsorbents, valves/instrumentation and control systems; midstream consists of turnkey system suppliers and integrated manufacturers; and downstream includes food & beverage, chemicals and refining, industrial gas companies, and biogas operators. Future trends will focus 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.

This report studies the global Carbon Dioxide Gas Recovery Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Dioxide Gas Recovery Equipment 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 Gas Recovery Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Dioxide Gas Recovery Equipment total production and demand, 2021-2032, (Units)

Global Carbon Dioxide Gas Recovery Equipment total production value, 2021-2032, (USD Million)

Global Carbon Dioxide Gas Recovery Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Carbon Dioxide Gas Recovery Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

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

Global Carbon Dioxide Gas Recovery Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Carbon Dioxide Gas Recovery Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Carbon Dioxide Gas Recovery Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Carbon Dioxide Gas Recovery Equipment 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 Asco Carbon Dioxide, Mitsubishi Heavy Industries, Bright Biomethane, GEA, Linde Engineering, Sumitomo Seika, Shell Cansolv, Cold Jet, Kinder Morgan, Fluor Corporation, 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 Gas Recovery Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) 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 Gas Recovery Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Dioxide Gas Recovery Equipment Market, Segmentation by Type:

Chemical Absorption

Physical Adsorption

Membrane Separation

Compression and Condensation

Others

Global Carbon Dioxide Gas Recovery Equipment Market, Segmentation by Form Factor:

Stationary

Mobile

Global Carbon Dioxide Gas Recovery Equipment Market, Segmentation by Inlet CO₂ Concentration:

High Concentration

Low Concentration

Global Carbon Dioxide Gas Recovery Equipment Market, Segmentation by Application:

Flue Gas CO₂ Recovery (SGR)

Process/By-product Gas CO₂ Recovery (BPR)

Dry Ice Production and Related CO₂ Recovery

Fermentation and Food and Beverage CO₂ Recovery

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Carbon Dioxide Gas Recovery Equipment market?
2. What is the demand of the global Carbon Dioxide Gas Recovery Equipment market?
3. What is the year over year growth of the global Carbon Dioxide Gas Recovery Equipment market?
4. What is the production and production value of the global Carbon Dioxide Gas Recovery Equipment market?

5. Who are the key producers in the global Carbon Dioxide Gas Recovery Equipment market?
6. What are the growth factors driving the market demand?

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