

Global CO₂ Gas Revert Recovery Systems 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 CO₂ Gas Revert Recovery Systems market size was valued at US\$ 360 million in 2025 and is forecast to a readjusted size of US\$ 986 million by 2032 with a CAGR of 14.7% during review period.

A carbon dioxide (CO₂) revert gas recovery system refers to a complete set of equipment that uses revert gas generated during the operation of CO₂ facilities as the feed gas. Through process units such as revert gas collection, pressure stabilization, compression, cooling, dehydration and impurity removal, and re-liquefaction/reuse, it recovers, purifies, and upgrades CO₂ from gas streams that would otherwise be vented or emitted, ultimately producing gaseous or liquid CO₂ that can be returned to storage tanks, liquefaction systems, or upstream processes for reuse. The system is mainly applied in liquid CO₂ production and storage/transportation, dry ice production, food and beverage carbonation supply chains, and industrial gas plants. Its core value lies in converting low-value revert gas generated from pressure-letdown flash, process switching, and equipment venting into reusable CO₂ products, thereby reducing emissions and losses, improving recovery yield, and enhancing energy efficiency as well as supply stability. In 2025, global output of CO₂ revert gas recovery systems reached 973 units, with an average selling price of USD 360,000 per unit.

A CO₂ Gas Revert Recovery System refers to a complete set of equipment that uses CO₂-containing gas as the feedstock and, through process blocks such as compression, cooling, absorption/adsorption, membrane separation, or cryogenic condensation, separates CO₂ from mixed gases, completes dehydration, impurity removal, and purity upgrading, and ultimately delivers marketable products in the form

of gaseous CO₂, liquid CO₂, or dry ice that can be directly stored, transported, or used. The industry combines characteristics of industrial gas equipment and process separation equipment. Demand is jointly driven by resource utilization and emissions-reduction constraints, and the order pattern typically features the coexistence of continuous shipments of standardized small-to-mid-sized systems and staged delivery of large, project-based installations.

From an application-structure perspective, CO₂ recovery units mainly serve fermentation and food & beverage, high-concentration process and by-product gases, biogas and biomethane upgrading, and flue-gas recovery. Fermentation and food & beverage applications place greater emphasis on stable supply and food-grade purity management, and therefore rely more on standardized, replicable skid-based systems. High-concentration process and by-product gas applications emphasize integration with upstream processes, continuous operation, and corrosion-resistant adaptation, resulting in a higher share of engineered integration. Biogas upgrading applications focus more on handling feedstock variability, broader impurity spectra, and overall energy consumption. Flue-gas recovery is more strongly influenced by policy timing, the pace of demonstration projects, and financing conditions; project cycles are longer, deliveries are more dispersed, and on-site project execution and acceptance milestones have a greater impact on delivery cadence. On the product-structure side, the industry is evolving from single recovery modules toward integrated offerings that combine separation and purification, re-liquefaction and/or dry-ice production, and storage/handling and control in one package. Typical deliverables increasingly include compression and cooling systems, dehydration and deep-purification modules (such as desulfurization and deoxidation where applicable), condensation/re-liquefaction modules, automation and safety interlock systems, and interfaces for remote monitoring.

From a cost-structure and manufacturing perspective, the total system cost is generally composed of compressor packages, heat-exchange and cooling systems, core separation and purification units (e.g., adsorption/absorption systems, membrane modules, cryogenic cold boxes), instrumentation and electrical systems, skid structures and piping/valves, as well as engineering design and on-site installation and commissioning. In a typical skid-based system, compressor packages account for 25%–40% of cost, heat exchange and cooling for 10%–20%, core separation/purification units for 10%–25%, instrumentation and electrical for 5%–10%, structures and piping/valves for 10%–20%, and engineering and commissioning for 10%–25%. Standardized skid products typically follow a “prefabrication + assembly + factory acceptance test (FAT) + site acceptance test (SAT)” delivery route. Single-line

capacity (defined as one skid assembly and testing line) is generally 10–30 sets per year for standardized small-to-mid-sized products. For large flue-gas recovery systems or deeply engineered projects, single-line capacity is typically 1–3 sets per year due to constraints such as civil interfaces, long-lead equipment procurement, and on-site execution. On the equipment side, gross margin is generally 20%–35% for more standardized small-to-mid-sized systems and 15%–30% for more engineered, project-based installations, with differences mainly driven by the share of non-standard design, on-site workload, long-lead component procurement and price volatility, and acceptance and performance-testing clauses.

From an industry-chain perspective, upstream supply relies on compressor and other critical rotating equipment, heat-exchange and refrigeration systems, adsorbents and catalytic purification materials, membrane modules and cryogenic components, as well as valves, piping, and instrumentation/control systems. Midstream participants are primarily turnkey equipment suppliers and engineering companies with process-package capabilities. Their key competitiveness lies in process know-how and purity control, system energy efficiency, long-term stable-operation experience, and the ability to replicate solutions quickly across different feed-gas conditions. Downstream customers include industrial gas companies, breweries and beverage producers, fermentation companies, biogas/biomethane operators, chemical and refining companies and hydrogen value-chain players, as well as owners of flue-gas abatement and carbon-management projects. The competitive landscape typically features a small number of global leaders with proven process packages and delivery track records, alongside regional engineering and equipment providers. Key entry barriers include adaptation to diverse impurity spectra, switching between food-grade and industrial-grade requirements, system-level optimization of energy consumption and recovery yield, accumulated project delivery and continuous-operation experience, and stable supply chains and quality systems for key components.

Looking ahead, the industry is expected to evolve along three main tracks. First, applications will increasingly shift from single-site recovery toward multi-site centralization and cross-site replication, raising the share of modular and standardized products and driving shorter delivery cycles and lower costs. Second, technology will move from single-unit separation toward optimized combinations of multiple process blocks, with adsorption/membrane/cryogenic hybrids expanding feed-gas adaptability and improving energy efficiency; heat integration, variable-frequency control, and advanced control strategies will become key differentiators. Third, while suppliers are extending capabilities beyond one-off delivery toward lifecycle support—strengthening customer stickiness through spare parts, performance guarantees, and remote

diagnostics—the core profitability of the sector will continue to depend primarily on scaled equipment deliveries and the efficiency of standardized replication. Meanwhile, flue-gas recovery and CCUS-related projects will remain project-based and policy-driven, and industry cyclicalities will be shaped mainly by policy intensity, the pace of transition from demonstration to commercialization, and the progress of financing and carbon-pricing mechanisms.

This report is a detailed and comprehensive analysis for global CO₂ Gas Revert Recovery Systems 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 CO₂ Gas Revert Recovery Systems market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global CO₂ Gas Revert Recovery Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global CO₂ Gas Revert Recovery Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global CO₂ Gas Revert Recovery Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 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 CO₂ Gas Revert Recovery Systems
- 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 Gas Revert Recovery Systems 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 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.

Market Segmentation

CO2 Gas Revert Recovery Systems 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

- Chemical Absorption
- Physical Adsorption
- Membrane Separation
- Compression and Condensation
- Others

Market segment by Form Factor

- Stationary
- Mobile

Market segment by Inlet CO2 Concentration

High Concentration

Low Concentration

Market segment 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

Major players covered

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

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 CO2 Gas Revert Recovery Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CO2 Gas Revert Recovery Systems, with price, sales quantity, revenue, and global market share of CO2 Gas Revert Recovery Systems from 2021 to 2026.

Chapter 3, the CO2 Gas Revert Recovery Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CO2 Gas Revert Recovery Systems 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 CO2 Gas Revert Recovery Systems 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 CO2 Gas Revert Recovery Systems.

Chapter 14 and 15, to describe CO2 Gas Revert Recovery Systems sales channel, distributors, customers, research findings and conclusion.

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