

# Global Carbon Recycling Service Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Carbon Recycling Service market size was valued at US\$ 6018 million in 2025 and is forecast to a readjusted size of US\$ 10848 million by 2032 with a CAGR of 9.1% during review period.

A Carbon Recycling Service captures carbon dioxide (CO<sub>2</sub>) from industrial emissions or the atmosphere and transforms it into valuable new products like fuels, chemicals (e.g., for soap/fertilizer), or building materials (like concrete aggregates), effectively treating CO<sub>2</sub> as a carbon resource to create a circular economy, reduce emissions, and achieve carbon neutrality. Companies offer these services through technologies such as artificial photosynthesis, methanation, and mineralization, turning waste CO<sub>2</sub> into sustainable products. Global CO<sub>2</sub> recycling volume is projected to reach 150 million tons by 2025, with an average recycling price of \$39 per ton. Gross profit margins typically range from 20% to 40%.

Carbon recycling services refer to integrated solutions that capture carbon dioxide from industrial or centralized emission sources, purify it, and convert it into reusable resources. The upstream segment mainly includes absorbents and adsorbents, membrane materials, catalysts, separation and purification equipment, compression and storage materials, as well as energy and utility inputs, with value concentrated in efficiency, energy consumption, and operational stability. Downstream represents the core of value realization and demand. The food and beverage industry has the highest requirements for CO<sub>2</sub> purity and safety, using recycled carbon dioxide for carbonated drinks, food preservation, and cold chain applications. The chemical industry utilizes recycled CO<sub>2</sub> as a feedstock for urea, methanol, polycarbonates, and specialty

chemicals, emphasizing supply stability and scalability. The construction materials sector applies CO<sub>2</sub> in concrete curing and mineralization processes, focusing on cost control and verifiable emission reductions. Energy and fuel applications are expanding through synthetic fuels and e-fuels, where policy incentives and long-term commercial viability are critical. In addition, large emission-intensive enterprises adopt carbon recycling services to reduce carbon intensity and generate carbon assets, with purchasing decisions centered on emission reduction effectiveness, compliance, and lifecycle costs.

In terms of trends, carbon recycling services are shifting from purely emission reduction solutions toward resource utilization and commercialization, increasingly integrated with carbon trading, green finance, and industrial collaboration. Key drivers include carbon neutrality targets, rising carbon compliance costs, expansion of downstream application scenarios, and government subsidies and pilot programs. Major constraints include high overall energy consumption and costs, incomplete maturity of some conversion technologies, volatility in recycled product markets, and inconsistent policy continuity and standards across regions.

This report is a detailed and comprehensive analysis for global Carbon Recycling Service market. Both quantitative and qualitative analyses are presented by company, 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 Recycling Service market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Carbon Recycling Service market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Carbon Recycling Service market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Carbon Recycling Service market shares of main players, in revenue (\$ Million), 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 Recycling Service

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 Recycling Service market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Air Liquide, Linde, Air Products, BASF, Chiyoda, TOYO Engineering, JGC, Carbon Recycling International, LanzaTech, LanzaJet, etc.

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

**Market segmentation**

Carbon Recycling Service 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. This analysis can help you expand your business by targeting qualified niche markets.

**Market segment by Type**

Industrial Sources

Atmospheric Sources

Biological Sources

Carbon Materials

Others

**Market segment by CO<sub>2</sub> Capture Technology**

Chemical Absorption

Physical Adsorption

Membrane Separation

Cryogenic Distillation

Biological Immobilization

Direct Air Capture (DAC)

#### Market segment by CO<sub>2</sub> Storage Methods

Geological Sequestration

Marine Sequestration

Mineral Sequestration

Biosequestration

Artificial Carbon Sequestration

#### Market segment by CO<sub>2</sub> Processing Capacity

100 tons/year

100-1000 tons/year

1000-10000 tons/year

10000-100000 tons/year

More than 100000 tons/year

#### Market segment by Application

Power

Steel

Chemical

Building Materials

Agriculture

Market segment by players, this report covers

Air Liquide

Linde

Air Products

BASF

Chiyoda

TOYO Engineering

JGC

Carbon Recycling International

LanzaTech

LanzaJet

European Energy

Liquid Wind

HIF Global

Infinium

Twelve

AIR COMPANY

Covestro

Econic Technologies

Newlight Technologies

Novomer

CarbonCure Technologies

CarbonBuilt

neustark

Blue Planet Systems

CarbiCrete

Carbon Upcycling Technologies

MCi Carbon

Carbon8 Systems

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

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

Chapter 2, to profile the top players of Carbon Recycling Service, with revenue, gross margin, and global market share of Carbon Recycling Service from 2021 to 2026.

Chapter 3, the Carbon Recycling Service competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Carbon Recycling Service market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Carbon Recycling Service.

Chapter 13, to describe Carbon Recycling Service research findings and conclusion.

## I would like to order

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