

Global Carbon Dioxide Removals (CDR) Market

<https://marketpublishers.com/r/G6AE68C3B860EN.html>

Date: January 2025

Pages: 131

Price: US\$ 4,650.00 (Single User License)

ID: G6AE68C3B860EN

Abstracts

Report Scope

This report on the global carbon dioxide removal (CDR) market segments the market by technology type, carbon credit buyers, and regions. The market size is provided in value (\$ millions) and volume (thousand tons). The report also discusses competitive intelligence, analyzing companies based on their product offerings and revenues generated from the CDR business. It also details market dynamics, emerging technologies, and global developments in the industry.

In this report, CDR technologies include land%li%and ocean-based technologies such as biochar, direct air capture (DAC), bioenergy carbon capture and sequestration (BECCS), and ocean alkalization. However, carbon capture, utilization, and storage (CCUS) technologies such as post-combustion, pre-combustion, and oxy-fuel combustion are outside the scope of the report.

Report Includes

40 data tables and 82 additional tables

Analysis of trends in the global market for carbon dioxide removals (CDR), featuring revenue data for 2023, estimated figures for 2024, forecasts for 2025 and 2027, and projections of compound annual growth rates (CAGRs) through 2029

Estimates of the current market size and revenue growth prospects, accompanied by a market share analysis by technology type, carbon credit buyer and geographical region

Coverage of technological advances in CDR technologies and the current and future market potential, as well as an analysis of the regulatory framework and reimbursement scenarios

Market share analysis of the key companies in the industry and coverage of mergers and acquisitions, joint ventures, collaborations and partnerships

Profiles of the leading market participants, including Aperam BioEnergia, Climeworks AG, Carbofex Ltd., Carbon Engineering ULC., and Exomad Green

Contents

CHAPTER 1 EXECUTIVE SUMMARY

Market Outlook
Scope of Report
Market Summary

CHAPTER 2 MARKET OVERVIEW

Overview
Porter's Five Forces Analysis
Bargaining Power of Buyers
Bargaining Power of Suppliers
Potential for New Entrants
Threat of Substitutes
Competition in the Industry
Value Chain Analysis: CDR
Overview
SWOT Analysis of CDR
Climate Change Policies and Regulations
Carbon Pricing
Paris Agreement
United States
Europe
Climate Target Policies

CHAPTER 3 MARKET DYNAMICS

Market Dynamics Snapshot
Market Drivers
Government Funding for Carbon Removal Projects
Impact of Stricter Carbon Regulations
Market Challenges
Governance Gap in CDRs
Non-Disclosure of CDR Deals
Lack of Technological Advances
Market Opportunities
Increasing Demand for CCUS

Market Restraints

Support from financial institutions for carbon-intensive projects

Project shutdowns due to cost and technical issues

CHAPTER 4 EMERGING TECHNOLOGIES AND DEVELOPMENTS

Overview

CDR Start-ups on the Rise

Hybrid DAC Technology (HDAC)

Electro-swing Adsorption

Moisture-swing Adsorption

Membrane-based Separation (m-DAC)

Algae-based Biochar

CHAPTER 5 MARKET SEGMENTATION ANALYSIS

Segmentation Breakdown

Market Analysis by Technology

BECCS

DAC

Biochar

Enhanced Weathering/Mineralization

Other CDR Technologies

Market Analysis by Carbon Credit Buyer

Finance Sector

Technology Sector

Other Sectors

Geographic Breakdown

Market Analysis by Region

North America

EMEA

APAC

South America

CHAPTER 6 COMPETITIVE INTELLIGENCE

Overview

CHAPTER 7 APPENDIX

Methodology

Information Sources

References

Abbreviations Used in the Report

Company Profiles

APERAM BIOENERGIA

ARCA

BUSSME ENERGY AB

CARBOFEX LTD.

CARBON ENGINEERING ULC.

CARBONFREE

CARBFIX HF.

CELLA MINERAL STORAGE INC.

CLIMEWORKS

EBB CARBON INC.

EXOMAD GREEN

GLOBAL THERMOSTAT (ZERO CARBON SYSTEMS)

NOVOCARBO GMBH

NEUSTARK AG

ORSTED A/S

PACIFIC BIOCHAR BENEFIT CORP.

STOCKHOLM EXERGI AB

WAKEFIELD BIOCHAR

List Of Tables

LIST OF TABLES

Summary Table : Global CDR Market, by Region, Through 2029
Table 1 : Global CDR Market, by Value and Volume, Through 2029
Table 2 : Carbon Tax, by Region/Country, 2023
Table 3 : Comparison of Emerging DAC Technologies
Table 4 : Comparison of CDR Technologies
Table 5 : Global CDR Market, by Technology, Through 2029
Table 6 : Global Market Volume for CDR, by Technology, Through 2029
Table 7 : Technology Readiness Level of BECCS Feedstocks, 2023
Table 8 : Technology Readiness Level of BECCS Production Processes, 2023
Table 9 : Operational BECCS Projects, 2023
Table 10 : Global BECCS CDR Market, by Region, Through 2029
Table 11 : Global BECCS CDR Market Volume, by Region, Through 2029
Table 12 : Comparison of Commercialized DAC Technologies
Table 13 : Energy Sources of Commercialized DAC Technologies
Table 14 : Cost Comparison of Renewable Energy Sources for DAC Plants
Table 15 : Operational DAC Plants, 2023
Table 16 : Global DAC CDR Market, by Region, Through 2029
Table 17 : Global DAC CDR Market Volume, by Region, Through 2029
Table 18 : Recent Developments in the Biochar CDR Market, 2022–2024
Table 19 : Global Biochar CDR Market, by Region, Through 2029
Table 20 : Global Biochar CDR Market Volume, by Region, Through 2029
Table 21 : Leading Suppliers of Enhanced Weathering/Mineralization-based CDR, 2023
Table 22 : Global Enhanced Weathering/Carbon Mineralization CDR Market, by Region, Through 2029
Table 23 : Global Enhanced Weathering/Carbon Mineralization CDR Market Volume, by Region, Through 2029
Table 24 : Methods for Enhancing Ocean Alkalinity
Table 25 : Global Market for Other CDR Technologies, by Region, Through 2029
Table 26 : Global Market Volume for Other CDR Technologies, by Region, Through 2029
Table 27 : Global CDR Market, by Carbon Credit Buyer, Through 2029
Table 28 : Financial Companies with the Most CDR Purchases, 2023
Table 29 : Global CDR Market for Finance Sector, by Region, Through 2029
Table 30 : Global CDR Market for Technology Sector, by Region, Through 2029
Table 31 : Global CDR Market for Other Sectors, by Region, Through 2029

Table 32 : Global CDR Market, by Region, Through 2029
Table 33 : Global Market Volume for CDR, by Region, Through 2029
Table 34 : Recent Developments in the North American CDR Market, 2023–2024
Table 35 : North American CDR Market, by Technology, Through 2029
Table 36 : North American Market Volume for CDR, by Technology, Through 2029
Table 37 : North American CDR Market, by Carbon Credit Buyer, Through 2029
Table 38 : North American CDR Market, by Country, Through 2029
Table 39 : Carbon Pricing Revenue, by Instrument, 2023
Table 40 : CDR Developments in the MEA Region, 2023–2024
Table 41 : EMEA CDR Market, by Technology, Through 2029
Table 42 : EMEA Market Volume for CDR, by Technology, Through 2029
Table 43 : EMEA Market for CDR, by Carbon Credit Buyer, Through 2029
Table 44 : EMEA Market for CDR, by Country, Through 2029
Table 45 : APAC CDR Market, by Technology, Through 2029
Table 46 : APAC Market Volume for CDR, by Technology, Through 2029
Table 47 : APAC CDR Market, by Carbon Credit Buyer, Through 2029
Table 48 : APAC Market for CDR, by Country, Through 2029
Table 49 : Recent Developments in the South American CDR Market, 2022–2024
Table 50 : South American Market for CDR, by Technology, Through 2029
Table 51 : South American Market Volume for CDR, by Technology, Through 2029
Table 52 : South American Market for CDR, by Carbon Credit Buyer, Through 2029
Table 53 : South American Market for CDR, by Country, Through 2029
Table 54 : Leading DAC Technology Companies
Table 55 : Company Shares Based on DAC Projects
Table 56 : Abbreviations Used in This Report
Table 57 : Aperam BioEnergia: Company Snapshot
Table 58 : Aperam BioEnergia: Product Portfolio
Table 59 : Aperam BioEnergia: News/Key Developments, 2024
Table 60 : ARCA: Company Snapshot
Table 61 : ARCA: Product Portfolio
Table 62 : ARCA: News/Key Developments, 2023–2024
Table 63 : Bussme Energy AB: Company Snapshot
Table 64 : Bussme Energy AB: Product Portfolio
Table 65 : Carbofex Ltd.: Company Snapshot
Table 66 : Carbofex Ltd.: Product Portfolio
Table 67 : Carbofex Ltd.: News/Key Developments, 2022
Table 68 : Carbon Engineering ULC.: Company Snapshot
Table 69 : Carbon Engineering ULC.: Product Portfolio
Table 70 : Carbon Engineering ULC.: News/Key Developments, 2022–2024

Table 71 : CarbonFree: Company Snapshot
Table 72 : CarbonFree: Product Portfolio
Table 73 : CarbonFree: News/Key Developments, 2021–2024
Table 74 : Carbfix hf.: Company Snapshot
Table 75 : Carbfix hf.: Product Portfolio
Table 76 : Carbfix hf.: News/Key Developments, 2023–2024
Table 77 : Cella Mineral Storage Inc.: Company Snapshot
Table 78 : Cella Mineral Storage Inc.: Product Portfolio
Table 79 : Cella Mineral Storage Inc.: News/Key Developments, 2023–2024
Table 80 : Climeworks: Company Snapshot
Table 81 : Climeworks: Product Portfolio
Table 82 : Climeworks: News/Key Developments, 2022–2024
Table 83 : Ebb Carbon Inc.: Company Snapshot
Table 84 : Ebb Carbon Inc.: Product Portfolio
Table 85 : Ebb Carbon Inc.: News/Key Developments, 2021–2024
Table 86 : Exomad Green: Company Snapshot
Table 87 : Exomad Green: Product Portfolio
Table 88 : Exomad Green: News/Key Developments, 2024
Table 89 : Global Thermostat (Zero Carbon Systems): Company Snapshot
Table 90 : Global Thermostat (Zero Carbon Systems): Product Portfolio
Table 91 : Global Thermostat (Zero Carbon Systems): News/Key Developments, 2023–2024
Table 92 : Novocarbo GmbH: Company Snapshot
Table 93 : Novocarbo GmbH: Product Portfolio
Table 94 : Novocarbo GmbH: News/Key Developments, 2024
Table 95 : neustark AG: Company Snapshot
Table 96 : neustark AG: Product Portfolio
Table 97 : neustark AG: News/Key Developments, 2023 and 2024
Table 98 : Ørsted A/S: Company Snapshot
Table 99 : Ørsted A/S: Financial Performance, FY 2022 and 2023
Table 100 : Ørsted A/S: Product Portfolio
Table 101 : Ørsted A/S: News/Key Developments, 2023–2024
Table 102 : Pacific Biochar Benefit Corp.: Company Snapshot
Table 103 : Pacific Biochar Benefit Corp.: Product Portfolio
Table 104 : Pacific Biochar Benefit Corp.: News/Key Developments, 2021–2024
Table 105 : Stockholm Exergi AB: Company Snapshot
Table 106 : Stockholm Exergi AB: Financial Performance, FY 2022 and 2023
Table 107 : Stockholm Exergi AB: Product Portfolio
Table 108 : Stockholm Exergi AB: News/Key Developments, 2023–2024

Table 109 : Wakefield BioChar: Company Snapshot

Table 110 : Wakefield BioChar: Product Portfolio

Table 111 : Wakefield BioChar: News/Key Developments, 2021–2023

List Of Figures

LIST OF FIGURES

Summary Figure : Global CDR Market, by Region, 2023–2029

Figure 1 : Porter's Five Forces Analysis of the CDR Market

Figure 2 : Value Chain Analysis of CDR with BECCS

Figure 3 : Value Chain Analysis of CDR with Enhanced Mineralization Technology

Figure 4 : Value Chain Analysis of CDR with Ocean Alkalinization Technology

Figure 5 : SWOT Analysis – CDR

Figure 6 : CDR Market Dynamics

Figure 7 : Energy-Related CO₂ Emissions, 2019–2023

Figure 8 : Schematic of Avnos' HDAC Technology

Figure 9 : DAC Commercialized and Emerging Technologies

Figure 10 : Technologies to Produce Algal Biomass

Figure 11 : Share of Global CDR Market, by Technology, 2023

Figure 12 : Share of Market Volume for CDR, by Technology, 2023

Figure 13 : Schematic Diagram of BECCS

Figure 14 : Share of Global BECCS CDR Market, by Region, 2023

Figure 15 : Share of Global BECCS CDR Market Volume, by Region, 2023

Figure 16 : Schematic Diagram of DAC Plant

Figure 17 : Share of Global DAC CDR Market, by Region, 2023

Figure 18 : Share of Global DAC CDR Market Volume, by Region, 2023

Figure 19 : Share of Global Biochar CDR Market, by Region, 2023

Figure 20 : Share of Global Biochar CDR Market Volume, by Region, 2023

Figure 21 : Share of Global Enhanced Weathering/Carbon Mineralization CDR Market, by Region, 2023

Figure 22 : Share of Global Enhanced Weathering/Carbon Mineralization CDR Market Volume, by Region, 2023

Figure 23 : Ocean-based CDR Methods

Figure 24 : Categorization of OAE-based Approaches

Figure 25 : Share of Global Market for Other CDR Technologies, by Region, 2023

Figure 26 : Share of Global Market Volume for Other CDR Technologies, by Region, 2023

Figure 27 : Share of Global CDR Market, by Carbon Credit Buyer, 2023

Figure 28 : Share of CDR Market for Finance Sector, by Region, 2023

Figure 29 : Share of CDR Market for Technology Sector, by Region, 2023

Figure 30 : Share of Global CDR Market for Other Sectors, by Region, 2023

Figure 31 : Share of Global CDR Market, by Region, 2023

- Figure 32 : Share of Market Volume for CDR, by Region, 2023
- Figure 33 : Share of North American Market for CDR, by Technology, 2023
- Figure 34 : Share of North American Market Volume for CDR, by Technology, 2023
- Figure 35 : Share of North American Market for CDR, by Carbon Credit Buyer, 2023
- Figure 36 : Share of North American Market for CDR, by Country, 2023
- Figure 37 : Share of EMEA Market for CDR, by Technology, 2023
- Figure 38 : Share of Market Volume for CDR, by Technology, 2023
- Figure 39 : Share of EMEA Market for CDR, by Carbon Credit Buyer, 2023
- Figure 40 : Share of EMEA Market for CDR, by Country, 2023
- Figure 41 : Share of APAC CDR Market, by Technology, 2023
- Figure 42 : Share of Market Volume for CDR, by Technology, 2023
- Figure 43 : Share of APAC Market for CDR, by Carbon Credit Buyer, 2023
- Figure 44 : Share of APAC Market for CDR, by Country, 2023
- Figure 45 : Share of South American Market for CDR, by Technology, 2023
- Figure 46 : Share of South American Market Volume for CDR, by Technology, 2023
- Figure 47 : Share of South American Market for CDR, by Carbon Credit Buyer, 2023
- Figure 48 : Share of South American Market for CDR, by Country, 2023
- Figure 49 : Company Share Analysis of BECCS CDR Industry, 2023
- Figure 50 : Ørsted A/S: Revenue Share, by Business Unit, FY 2023
- Figure 51 : Ørsted A/S: Revenue Share, by Country/Region, FY 2023
- Figure 52 : Stockholm Exergi AB: Revenue Share, by Business Unit, FY 2023

I would like to order

Product name: Global Carbon Dioxide Removals (CDR) Market

Product link: <https://marketpublishers.com/r/G6AE68C3B860EN.html>

Price: US\$ 4,650.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G6AE68C3B860EN.html>