

Global Direct Air Capture and Storage (DACs) Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our latest research, the global Direct Air Capture and Storage (DACs) market size will reach USD 894 million in 2031, growing at a CAGR of 10.8% over the analysis period.

Direct air capture and storage (DAC+S) removes CO₂ directly from ambient air. In contrast, carbon capture and storage (CCS) captures CO₂ from point sources of carbon dioxide, such as the smokestacks of iron and steel factories. It then transports the captured CO₂ to a storage site, where it is sequestered.

Carbon Dioxide, CO₂, is commonly found in natural gas. In order to meet pipeline specifications or other application specific requirements, CO₂ separation is necessary. In addition, there may also be H₂S and H₂O present that needs to be removed. CO₂ separation membranes have been widely used for CO₂ removal applications and come with the added benefit of removing H₂S and H₂O as well.

This report is a detailed and comprehensive analysis for global Direct Air Capture and Storage (DACs) 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 Direct Air Capture and Storage (DACs) market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Direct Air Capture and Storage (DACs) market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Direct Air Capture and Storage (DACs) market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Direct Air Capture and Storage (DACs) market shares of main players, in revenue (\$ Million), 2020-2025

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 Direct Air Capture and Storage (DACs)
- 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 Direct Air Capture and Storage (DACs) 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 Mitsubishi, Global Thermostat, Climeworks, CO2 Solutions, LanzaTech, Carbon Clean, Aker Carbon Capture, Carbon Engineering, Quest, CarbFix, etc.

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

Market segmentation

Direct Air Capture and Storage (DACs) market is split by Type and by Application. For the period 2020-2031, 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

Solvent-Based Direct Air Capture Systems

Sorbent-Based Direct Air Capture Systems

Market segment by Application

Energy

Construciton

Steel

Others

Market segment by players, this report covers

Mitsubishi

Global Thermostat

Climeworks

CO2 Solutions

LanzaTech

Carbon Clean

Aker Carbon Capture

Carbon Engineering

Quest

CarbFix

Heirloom

Skytree

CarbonFree

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 Direct Air Capture and Storage (DACs) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Direct Air Capture and Storage (DACs), with revenue, gross margin, and global market share of Direct Air Capture and Storage (DACs) from 2020 to 2025.

Chapter 3, the Direct Air Capture and Storage (DACs) 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 2020 to 2031

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 2020 to 2025. and Direct Air Capture and Storage (DACs) market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Direct Air Capture and Storage (DACs).

Chapter 13, to describe Direct Air Capture and Storage (DACs) research findings and conclusion.

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