

Global Direct Air Capture (DAC or DACCS) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G261053DEC3AEN.html>

Date: January 2024

Pages: 92

Price: US\$ 3,480.00 (Single User License)

ID: G261053DEC3AEN

Abstracts

According to our (Global Info Research) latest study, the global Direct Air Capture (DAC or DACCS) market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

The Direct Air Capture (DAC or DACCS) industry can be broken down into several segments, Physical Absorption in Liquid Media, Adsorption on Solid Media.

Across the Global, the major players cover Carbon Engineering, ClimeWorks, Global Thermostat, etc.

Direct air capture (DAC) is a process of capturing carbon dioxide (CO₂) directly from the ambient air (as opposed to capturing from point sources, such as a cement factory or biomass power plant) and generating a concentrated stream of CO₂ for sequestration or utilization.

Global key players of direct air capture (DAC or DACCS) include Global Thermostat, ClimeWorks and Carbon Engineering. Among them, Carbon Engineering dominates with nearly 75% production value share, followed by Global Thermostat (16%) and ClimeWorks (6%). North America is the largest market, has a share about 89%, followed by Europe, with share 11%. Based on the product type, the Direct Air Capture (DAC or DACCS) is primarily split into Physical Absorption in Liquid Media and Adsorption on Solid Media. The leading type is Adsorption on Solid Media, with a market share over 99%.

Based on the Application, the Direct Air Capture (DAC or DACCS) is primarily split into

Food and Beverage, Greenhouse, Energy, Fuel, etc. The largest segment is Energy and Fuel, accounting for over 95%.

The Global Info Research report includes an overview of the development of the Direct Air Capture (DAC or DACCS) industry chain, the market status of Food and Beverage (Physical Absorption in Liquid Media, Adsorption on Solid Media), Greenhouse (Physical Absorption in Liquid Media, Adsorption on Solid Media), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Direct Air Capture (DAC or DACCS).

Regionally, the report analyzes the Direct Air Capture (DAC or DACCS) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Direct Air Capture (DAC or DACCS) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Direct Air Capture (DAC or DACCS) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Direct Air Capture (DAC or DACCS) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K MT), revenue generated, and market share of different by Type (e.g., Physical Absorption in Liquid Media, Adsorption on Solid Media).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Direct Air Capture (DAC or DACCS) market.

Regional Analysis: The report involves examining the Direct Air Capture (DAC or DACCS) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Direct Air Capture (DAC or DACCS) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Direct Air Capture (DAC or DACCS):

Company Analysis: Report covers individual Direct Air Capture (DAC or DACCS) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Direct Air Capture (DAC or DACCS) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Food and Beverage, Greenhouse).

Technology Analysis: Report covers specific technologies relevant to Direct Air Capture (DAC or DACCS). It assesses the current state, advancements, and potential future developments in Direct Air Capture (DAC or DACCS) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Direct Air Capture (DAC or DACCS) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Direct Air Capture (DAC or DACCS) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Physical Absorption in Liquid Media

Adsorption on Solid Media

Market segment by Application

Food and Beverage

Greenhouse

Energy, Fuel, etc.

Major players covered

Carbon Engineering

ClimeWorks

Global Thermostat

CarbonCapture Inc.

Sustaera

Mission Zero

AirCapture LLC

Heirloom

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 Direct Air Capture (DAC or DACCS) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Direct Air Capture (DAC or DACCS), with price, sales, revenue and global market share of Direct Air Capture (DAC or DACCS) from 2019 to 2024.

Chapter 3, the Direct Air Capture (DAC or DACCS) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Direct Air Capture (DAC or DACCS) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Direct Air Capture (DAC or DACCS) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Direct Air Capture (DAC or DACCS).

Chapter 14 and 15, to describe Direct Air Capture (DAC or DACCS) sales channel, distributors, customers, research findings and conclusion.

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