

Global Direct Air Capture Device Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Direct Air Capture Device market size was valued at USD 15 million in 2022 and is forecast to a readjusted size of USD 720.8 million by 2029 with a CAGR of 73.5% during review period.

Direct Air Capture Device is a technology used to remove carbon dioxide (CO₂) directly from the atmosphere. It is a type of carbon capture and storage (CCS) technology that aims to reduce the concentration of CO₂ in the atmosphere, thus mitigating climate change and its associated impacts.

Direct Air Capture Device is used to capture greenhouse gases such as carbon dioxide (CO₂) from the atmosphere to reduce atmospheric carbon emissions and combat climate change. In recent years, Direct Air Capture Device technology has attracted significant investment and commercial interest. Many companies and start-ups are working to develop and commercialise DAC technology to meet the needs of climate change response. DAC technology is constantly being improved to increase efficiency, reduce costs and increase capture efficiency. New materials and catalysts are being developed to help increase the rate at which CO₂ is adsorbed and released. Some DAC projects integrate renewable energy sources, such as solar and wind, with capture technologies to reduce energy costs and carbon emissions. This integration contributes to the sustainability of DAC. DAC technologies are seen as a key approach to achieving carbon neutrality and negative emissions targets. A number of companies and international organisations have set zero and negative emissions targets, and DAC has played a role in the achievement of these targets. A number of DAC projects are already in the large-scale testing and implementation phase. These projects plan to build equipment to enable large-scale CO₂ capture and storage in the coming years.

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

Regionally, the report analyzes the Direct Air Capture Device 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 Device market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Direct Air Capture Device 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 Device 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 Units), revenue generated, and market share of different by Type (e.g., Liquid Adsorption, Solid Adsorption).

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 Device market.

Regional Analysis: The report involves examining the Direct Air Capture Device 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 Device 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 Device:

Company Analysis: Report covers individual Direct Air Capture Device 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 Device. 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 Device. It assesses the current state, advancements, and potential future developments in Direct Air Capture Device areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Direct Air Capture Device 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 Device market is split by Type and by Application. For the period 2018-2029, 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

Liquid Adsorption

Solid Adsorption

Market segment by Application

Food and Beverage

Greenhouse

Energy, Fuel, etc.

Major players covered

CarbonCapture Inc.

Carbon Engineering

Global Thermostat

ClimeWorks

Mission Zero

Sustaera

Heirloom

AirCapture LLC

Carbfix

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 Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Direct Air Capture Device, with price, sales, revenue and global market share of Direct Air Capture Device from 2018 to 2023.

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

Chapter 4, the Direct Air Capture Device breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2022. and Direct Air Capture Device market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 Device.

Chapter 14 and 15, to describe Direct Air Capture Device sales channel, distributors, customers, research findings and conclusion.

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