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The Global Direct Air Carbon Capture and Storage (DACCS) Market 2024-2045

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Abstracts

Direct Air Carbon Capture and Storage (DACCS) is an emerging carbon dioxide removal strategy that uses advanced, mainly proprietary technology to capture and store or utilize carbon dioxide directly from the ambient air. As DACCS technologies continue to advance and scale up, they offer substantial opportunities for businesses, investors, and policymakers. Captured CO2 can be permanently stored in deep geological formations and depleted aquifers. Novel technologies can trap CO2 in rocks, via mineralization. Captured CO2 can also be used in a range of applications. The ability to sell or convert CO2 into useful products provides a commercialization pathway for DACCS, with products including:

Fuels

Chemicals, plastics, and polymers

Construction materials

Biological yield-boosting

Food and feed production

Enhanced oil recovery (EOR)

This market report provides a comprehensive analysis of the latest trends, innovations, and growth opportunities in the DACCS industry, focusing on key aspects such as CO2 capture mechanisms, technologies, markets, and key players. The report discusses the

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advantages of DACCS as a CO2 removal strategy, including its scalability, flexibility in siting, and potential for integration with renewable energy sources. It also explores the current state of DACCS deployment and the factors driving its growth, such as increasing public and private sector investment, supportive policies, and the growing demand for carbon removal solutions.
CO2 Capture Mechanisms and Technologies The report delves into the various CO2 capture and separation mechanisms employed in DACCS, including sorbent-based and solvent-based systems. It also examines the different technologies used in DACCS, such as solid sorbents, liquid sorbents, and passive direct air capture (PDAC). The report provides a detailed comparison of these technologies, highlighting their advantages, limitations, and potential for future development. While the market is in its infancy, with a relatively small amount of DACCS plants in operation (mainly in Europe, USA, Canada and Japan), the potential of these technologies will play a growing role in the carbon capture market. Companies are being incentivized to develop the technology with the US government offering >$3.5 billion in grants.
Report contents include:

Analysis of the overall market for Carbon Capture, Utilization and Storage (CCUS).

Costs for DACCS, current and targeted.

Pros and cons of DACCS.

In-depth DACCS technology analysis.

Comparative analysis of DAC to other carbon capture tech.

Commercialization and plants including production capacities.

Markets for CO2 captured by DACCS. For each sector, the report identifies key market drivers, trends, and opportunities. It also provides market size estimates and forecasts from 2024 to 2045, segmented by technology and application.
Markets covered include:

Fuels

Chemicals, plastics, and polymers

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Market challenges. The report analyzes the costs associated with DACCS, including capital expenditures (CAPEX) and operating expenditures (OPEX). It breaks down the cost contributions of various components in DACCS systems and provides a comparison of cost estimates for different technologies. The report also identifies the main challenges facing the DACCS industry, such as high energy requirements, the need for cost reductions, and the development of supportive policies and infrastructure.

Profiles of 66 companies involved in DACCS. Companies profiled include Airhive, AspiraDAC, Carbofex Oy, CarbonCapture Inc., Charm Industrial, Climeworks, Holocene, 44.01, Mission Zero Technologies, Noya, Occidental Petroleum Corp., and Removr. Company profiles cover technology offerings, key projects, partnerships, and competitive strengths.

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