

# Direct Air Capture Market Competition Analysis 2025: How Players Are Shaping Growth

*The Business Research Company's Direct Air Capture Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

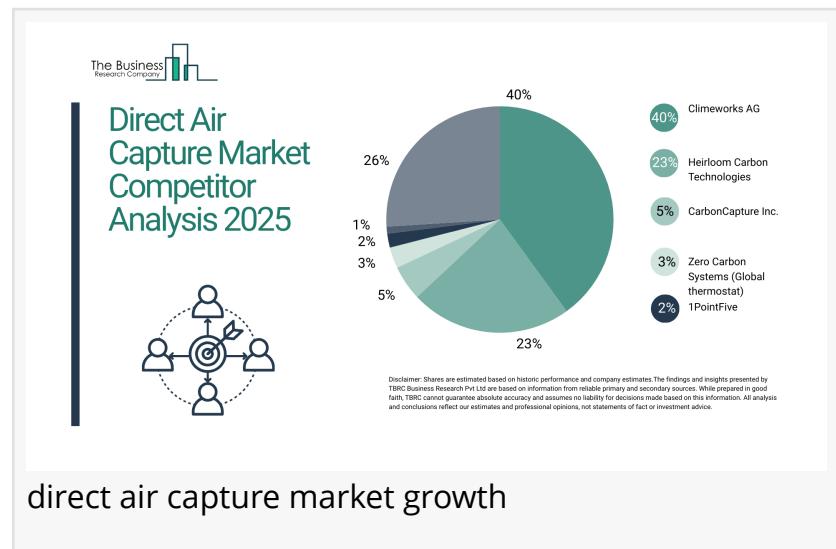
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/EINPresswire.com/ -- The [Direct Air Capture market](#) is dominated by a mix of global technology leaders and regional innovators. Companies are focusing on modular DAC systems, energy-efficient capture technologies, and integration with carbon utilization and storage solutions to strengthen market presence and accelerate deployment. Understanding the competitive landscape is key for stakeholders seeking growth opportunities, strategic partnerships, and long-term investment in permanent carbon removal solutions.

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It will grow to \$0.68 billion in 2029 at a compound annual growth rate (CAGR) of 56.5%”

*The Business Research Company*



uses like greenhouses and beverages. Their main services include carbon removal as a service for businesses and individuals, tailored carbon removal portfolios combining engineered and nature-based solutions and the development and operation of large-scale DAC plants such as Orca and Mammoth. These offerings enable clients to achieve verified, high-quality carbon removal for their net-zero strategies.

## Which Market Player Is Leading the Direct Air Capture Market?

According to our research, Climeworks AG led global sales in 2024 with a 43% market share. The company partially involved in the [direct air capture market growth](#), provides DAC technology that removes CO<sub>2</sub> from the atmosphere using renewable energy, with the captured CO<sub>2</sub> either permanently stored underground or supplied for industrial

## How Concentrated Is the Direct Air Capture Market?

The market is concentrated, with the top 6 players accounting for 62% of total market revenue in 2024. This level of concentration reflects the industry's high technical complexity, capital intensity, and regulatory requirements driven by the need for efficient capture technologies, large-scale operations, and permanent carbon removal solutions. Leading vendors such as Climeworks AG, Heirloom Carbon Technologies, CarbonCapture Inc., Zero Carbon Systems (Global Thermostat), 1PointFive, and Verdox dominate through proprietary DAC technologies, operational scale, and strategic partnerships, while smaller firms focus on niche applications and innovative solutions. As adoption of direct air capture solutions accelerates, consolidation, collaborations, and long-term offtake agreements are expected to further strengthen the dominance of major players.

•Leading companies include:

- Climeworks AG (40%)
- Heirloom Carbon Technologies (23%)
- CarbonCapture Inc. (5%)
- Zero Carbon Systems (Global thermostat) (3%)
- 1PointFive (2%)
- Verdox (1%)

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## Which Companies Are Leading Across Different Regions?

•North America: Mission Zero Technologies, Carbyon B.V., Svante Inc., Carbon Engineering Ltd., Deep Sky Corporation, Climeworks AG, Spiritus, Skyrenu Technologies Inc., Airhive Ltd., Carbon Atlantis GmbH, ReCarbn B.V., Heimdal Inc., 1PointFive LLC (Occidental Petroleum), Zero Carbon Systems Inc., Heirloom Carbon Technologies, Verdox, Inc., CarbonCapture Inc., Capture6, Inc., Avnos Inc., and Sustaera Inc. are leading companies in this region.

•Asia Pacific: Southern Green Gas, KC8 Capture Technologies (VIC), Fugu Carbon, Sinopec, Jelix Electrifi Ventures, AspiraDAC, CarbonBox, Fugro, Carbon Xtract Corporation, NYK Line, Climeworks AG, Shimizu Corporation, Sojitz Corporation, Japan Airlines, Sungrow Power Supply Co., Ltd., DeCarbon Tech, Heirloom Carbon Technologies, Inc., SK Geo Centric, SK On, KAIST Sorv, CarbonEnergy Inc., Capture6, Inc., Sumitomo Corporation, Lotte Chemica, and SK ecoplant, and more are leading companies in this region.

•Western Europe: ReCarbn B.V., CarpeCarbon, Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW), RepAir Carbon, Phlair, Sirona Technologies, NeoCarbon GmbH, Climeworks AG, Skytree, and Greenlyte Carbon Technologies are leading companies in this region.

•Eastern Europe: Heidelberg Materials, ČEZ Group, Carbominer, Green Sequest, Carbony, and Arbonics are leading companies in this region.

•South America: HIF Global, Repsol S.A., DACMA GmbH, CarbonCapture Inc., Climeworks AG, Zero Carbon Systems Inc., Carbon Engineering ULC, Sustaera Inc., and Heirloom Carbon Technologies are leading companies in this region

## What Are the Major Competitive Trends in the Market?

- Strategic Investments is transforming technological capabilities and secure long-term carbon removal contracts.
- Example: Aircapture (June 2025) assigns Aircapture's approach eliminates the need for CO<sub>2</sub> transportation, reducing costs and emissions and offers a reliable, high-purity CO<sub>2</sub> source for customers.
- These innovations will accelerate Fugu Carbon's commercialization efforts and support pilot projects aimed at demonstrating real-world impact.

## Which Strategies Are Companies Adopting to Stay Ahead?

- Launching modular and scalable DAC systems to expand market reach and deployment flexibility
- Enhancing strategic funding and long-term offtake agreements to support large-scale project implementation
- Focusing on advanced CO<sub>2</sub> capture materials and energy-efficient technologies to enhance operational performance
- Leveraging partnerships with industrial, energy, and carbon utilization stakeholders to integrate DAC into broader carbon management solutions

Access the detailed Direct Air Capture Market report here:

<https://www.thebusinessresearchcompany.com/report/direct-air-capture-global-market-report>

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