

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

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

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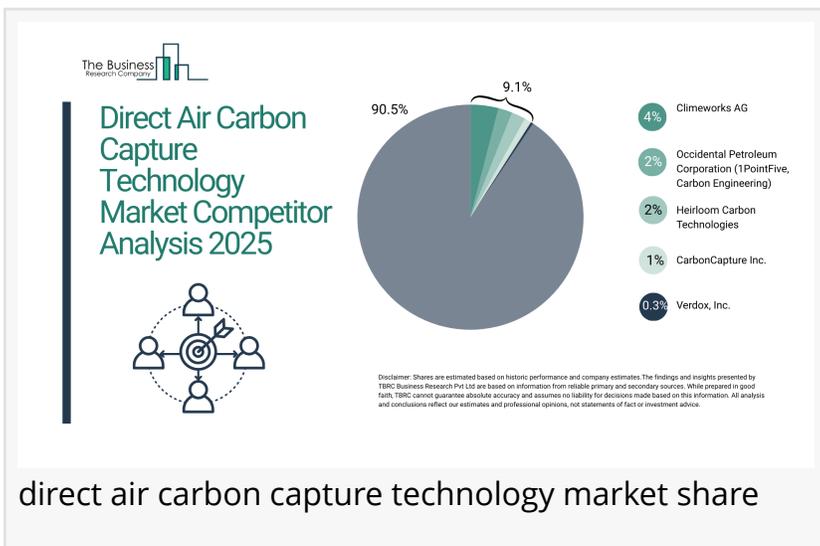
/EINPresswire.com/ -- The [Direct Air Carbon Capture Technology market](#) is

dominated by a mix of global energy corporations and emerging climate-tech innovators. Companies are focusing on scaling modular DAC units, integrating renewable energy-powered capture systems, and developing cost-efficient sorbent and solvent technologies to enhance CO₂ removal performance. With tightening climate regulations and rising net-zero commitments, market participants are accelerating partnerships, securing long-term carbon credit agreements, and expanding pilot-to-commercial deployments



It will grow from \$2.81 billion in 2024 to \$3.15 billion in 2025 at a compound annual growth rate (CAGR) of 12.1%”

The Business Research Company



direct air carbon capture technology market share

to strengthen their competitive positioning. Understanding the competitive landscape is key for stakeholders seeking investment prospects, technological collaborations, and large-scale decarbonization opportunities.

Which Market Player Is Leading the Direct Air Carbon Capture Technology Market?

According to our research, Climeworks AG led global sales in 2024 with a 4% market share. The company partially involved in the [direct air carbon capture technology market](#)

[growth](#), provides technology that removes CO₂ from the atmosphere using renewable energy, with the captured CO₂ either permanently stored underground or supplied for industrial 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.

How Concentrated Is the Direct Air Carbon Capture Technology Market?

The market is fragmented, with the top 7 players accounting for 9% of total market revenue in 2024. This level of fragmentation reflects the sector's early-stage commercial landscape—defined by capital-intensive R&D, evolving regulatory frameworks, and the technical complexity of CO₂ capture, storage, and utilization. Leading vendors such as Climeworks AG, Occidental Petroleum Corporation (1PointFive / Carbon Engineering), and Heirloom Carbon Technologies hold the largest market shares by leveraging proprietary capture technologies, large-scale deployment experience, and strong partnerships with governments and industrial emitters, while smaller companies such as CarbonCapture Inc., Verdox Inc., Zero Carbon Systems (Global Thermostat), and Avnos Inc. remain focused on niche DAC innovations and pilot-stage installations. As investment in climate-tech accelerates and demand for negative-emissions solutions expands globally, consolidation, technology licensing, and cross-industry collaborations are expected to reinforce the dominance of major players while gradually enabling scale-up across the wider ecosystem of emerging DAC innovators.

• Leading companies include:

- o Climeworks AG (4%)
- o Occidental Petroleum Corporation (1PointFive, Carbon Engineering) (2%)
- o Heirloom Carbon Technologies (2%)
- o CarbonCapture Inc. (1%)
- o Verdox, Inc. (0.3%)
- o Zero Carbon Systems (Global Thermostat LLC) (0.1%)
- o Avnos Inc. (0.1%)

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https://www.thebusinessresearchcompany.com/sample_request?id=21937&type=smp

Which Companies Are Leading Across Different Regions?

- North America: ZeoDAC, Carbyon B.V., Svante Technologies Inc., Carbon Engineering Ltd., Deep Sky Corporation, Climeworks AG, Spiritus Technologies Inc., Skyrenu Technologies Inc., Airhive Ltd., Heimdal Inc., 1PointFive LLC (a subsidiary of Occidental Petroleum Corporation), Zero Carbon Systems Inc., Heirloom Carbon Technologies Inc., Verdox Inc., CarbonCapture Inc., Avnos Inc. are leading companies in this region.
- Asia Pacific: Southern Green Gas Limited, AspiraDAC Technologies, CarbonBox Technologies, Capture6 Inc., Carbon Xtract Corporation, Climeworks AG, Carbon Clean Solutions Limited, Heirloom Carbon Technologies Inc., Sumitomo Corporation, and Sojitz Corporation. are leading companies in this region.
- Western Europe: Climeworks AG, NEG8 Carbon Limited, Carbfix hf., Mission Zero Technologies Limited, ReCarbn B.V., CarpeCarbon GmbH, Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW), RepAir Carbon Ltd., Phlair Technologies Limited, Sirona

Technologies GmbH, NeoCarbon GmbH, Skytree B.V. are leading companies in this region.

- Eastern Europe: Sirona Technologies GmbH, Carbominer S.A., RedoxNRG sp. z o.o., Phlair Technologies Limited, and NeoCarbon GmbH are leading companies in this region.
- South America: DACMA GmbH, CarbonCapture Inc., Climeworks AG, Carbon Engineering ULC, and Heirloom Carbon Technologies Inc. are leading companies in this region.

What Are the Major Competitive Trends in the Market?

- Drive energy-efficient carbon capture and global neutrality efforts is transforming to enhance CO₂ removal efficiency, reduce operational costs and accelerate large-scale deployment toward global carbon neutrality goal.
- Example: NGK Insulators Innovative ceramic honeycomb structures for Direct Air Capture (DAC) technology (September 2025) assigns to reduce pressure loss and energy consumption while efficiently capturing CO₂.
- These innovations position NGK to strengthen strategic collaborations, accelerate industrial deployment, and enhance global confidence in scalable DAC solutions.

Which Strategies Are Companies Adopting to Stay Ahead?

- Launching new products and solutions while forming strategic partnerships to expand business capabilities and strengthen Climeworks AG's market position
- Enhancing capital investments and public-private funding partnerships to support technology scaling, cost reduction, and infrastructure expansion
- Focusing on R&D initiatives for energy-efficient sorbents, low-temperature regeneration, and high-capacity CO₂ capture materials to boost performance and reduce operational costs
- Leveraging renewable energy, hybrid storage solutions, and digital platforms for optimized capture performance and scalable carbon removal operations

Access the detailed Direct Air Carbon Capture Technology Market report here:

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

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