



DIRECT AIR CAPTURE FAST FACTS

REMOVING CO₂ FROM THE ATMOSPHERE

According to the Intergovernmental Panel on Climate Change, carbon removal technologies will be critical in helping limit global warming to 1.5°C. Oxy formed 1PointFive, a carbon capture, utilization and storage (CCUS) development company, to build and deploy Direct Air Capture (DAC) facilities, which will remove carbon dioxide (CO₂) from the atmosphere and commercialize Carbon Engineering's carbon removal technology. This effort is expected to support global decarbonization and create a pathway to achieve net-zero climate targets for Oxy and others.



Direct Air Capture

Direct Air Capture (DAC) is a process that captures CO₂ from the atmosphere using an engineered technology. When operational, we expect DAC facilities will be powered by near-zero-emission energy and use fans to pull large volumes of air into an air contactor system. The CO₂ is separated from the air, concentrated and compressed through a series of chemical processes that result in a high-purity CO₂ stream which can then be safely and securely stored deep underground in geologic formations or used in a variety of processes to create new products such as fuels, cement or plastics.

Mission-Critical Capability

Limiting global temperature rise to 1.5°C could require up to 20,000 million tonnes per annum (MTPA) of carbon removal. Today, we believe DAC can economically address approximately 5,000 MTPA from hard-to-decarbonize industries such as aviation, shipping, trucking and rail. With increased scale and the associated cost reduction, we expect DAC carbon removal will be able to competitively address approximately 15,000 MTPA of CO₂ emissions.

Rapid, Large-Volume Removal

A key benefit of DAC is that it can support large volumes of CO₂ removal from the atmosphere with a relatively small footprint very quickly. By rapidly developing DAC technology, we are preparing the infrastructure to help our world reach and sustain net-zero emissions. Developing this infrastructure now enables us to begin necessary large-volume CO₂ capture to bring costs down and ensure a long-term economic solution for reaching and sustaining net-zero emissions.

High-Integrity, Secure Storage

CO₂ removed from the atmosphere with DAC will be securely stored via geologic sequestration. Geologic sequestration is recognized as one of the most durable ways to store CO₂ and allows for measurement, verification and reporting of CO₂ volumes, which will be verified under third-party standards. Oxy has over 50 years of experience in CO₂ processing and injection and is bringing this experience and know-how to these new carbon removal and storage projects.

Economic Advantage

Direct Air Capture represents an economic growth opportunity through large-scale infrastructure projects, boosting industries for key construction materials and creating jobs both in supply chain industries and during the construction and ongoing operation of DAC facilities. We expect DAC and sequestration hubs to serve as carbon innovation centers that draw additional CO₂ technology and utilization industries and further support host communities.

Decarbonization through Collaboration

Taking on a challenge this large demands teamwork. Oxy subsidiary Carbon Engineering is a climate solutions company which pioneered, and continues to innovate, groundbreaking DAC and AIR TO FUELS™ technology. Oxy and its subsidiary 1PointFive are developing DAC technology with a team of innovative partners like global engineering, procurement and construction (EPC) company Worley.

Progress Toward DAC Deployment

INNOVATION CENTRE

The Carbon Engineering Innovation Centre was built in 2021 in Squamish, B.C. for ongoing DAC technology development and testing. It enables Carbon Engineering and 1PointFive to continue optimizing DAC technology, so improvements can be introduced to commercial facilities worldwide.

1POINTFIVE SELECTED FOR U.S. DEPARTMENT OF ENERGY GRANT

In 2024, 1PointFive announced that its South Texas DAC Hub was awarded U.S. Department of Energy funding of up to \$500 million to support development of this vital climate technology. The hub, to be located on the King Ranch in Kleberg County, Texas, will host a DAC facility with an initial removal capacity of 500,000 metric tons of CO₂ per year with a plan to develop a build-out to over 1 million metric tons per year in the future.

STRATOS CONSTRUCTION UNDERWAY

1PointFive is developing the largest DAC facility in the world, called STRATOS, which is currently under construction in Texas. STRATOS is designed to remove up to 500,000 metric tons of atmospheric CO₂ annually once fully operational —laying the foundation for commercial-scale DAC deployment.

INTERNATIONAL CCUS DEVELOPMENT

Oxy is actively pursuing international development of CCUS. In 2023, we signed Memoranda of Understanding with ADNOC to evaluate participation in DAC plants and CO₂ sequestration hubs in the U.S. and the UAE, including a 1 million metric ton-per-year DAC plant in the UAE, and separately with OQ Gas Networks SAOC, the sole transporter of natural gas in Oman, to jointly study the development of potential CCUS projects in Oman in conjunction with Oxy's EOR projects.

Visit oxy.com for more information.

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