



# DIRECT AIR CAPTURE FAST FACTS

## REMOVING CO<sub>2</sub> 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 by 2050. 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 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 CO<sub>2</sub> from the atmosphere using an engineered technology. When operational, we expect DAC facilities will be powered by zero-emission energy and use fans to pull large volumes of air into an air contactor system. The CO<sub>2</sub> is separated from the air, concentrated and compressed through a series of chemical processes that result in a pure CO<sub>2</sub> 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 by 2050 is expected to require up to 10,000 to 15,000 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 CO<sub>2</sub> emissions.

## Rapid, Large-Volume Removal

A key benefit of DAC is that it can support large volumes of CO<sub>2</sub> 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 CO<sub>2</sub> capture to bring costs down and ensure a long-term economic solution for reaching and sustaining net-zero emissions.

## High Integrity, Secure Storage

CO<sub>2</sub> 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 CO<sub>2</sub> and allows for measurement, verification and reporting of CO<sub>2</sub> volumes, which will be verified under third-party standards. Oxy has over 50 years of experience in CO<sub>2</sub> 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 CO<sub>2</sub> technology and utilization industries and further support host communities.

## Decarbonization through Collaboration

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

## Progress Toward Stratos

### LICENSE TO BUILD

1PointFive holds an exclusive DAC license for U.S. deployment and Oxy Low Carbon Ventures has a worldwide agreement with Carbon Engineering as the execution partner for all DAC deployments.

### 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.

### EPC SELECTION FOR FEED

1PointFive teamed up with global EPC company Worley for the front-end engineering and design (FEED) on our first DAC facility Stratos, and the pre-FEED on the first AIR TO FUELS™ facility.

### STRATOS CONSTRUCTION UNDERWAY

Construction of Stratos in the Texas Permian Basin began in September 2022. Commissioning and startup of carbon capture is anticipated in late 2024, with commercial operations expected to begin in mid-2025.

### GLOBAL DEPLOYMENT APPROACH

1PointFive and Carbon Engineering announced a DAC plant deployment approach to help execute large numbers of DAC projects around the world. The deployment approach standardizes the design of plants to help deliver complete, operationally ready DAC facilities to local partners.

Visit [oxy.com](https://oxy.com) for more information.

This brochure contains forward-looking statements based on Oxy's current expectations, beliefs, plans and forecasts. All statements other than statements of historical fact are forward-looking statements. These statements are not guarantees of future performance as they involve assumptions that may prove to be incorrect and involve risks and uncertainties. Factors that may affect Oxy's business can be found in Oxy's filings with the U.S. Securities and Exchange Commission (SEC), which may be accessed at the SEC's website, [www.sec.gov](https://www.sec.gov).

April 2023

