OXY ZERO IN™

1POINTFIVE FAST FACTS

A NEW KIND OF COMPANY FOR TODAY'S CHALLENGES

Oxy formed 1PointFive in 2020 to develop and deploy carbon removal and sequestration technologies that deliver solutions for hard-to-abate sectors. 1PointFive's mission is to reduce atmospheric CO_2 and help curb global temperature rise to 1.5°C by 2050 in alignment with Paris Agreement targets. With decades of experience in large-scale CO_2 transportation, use and storage, Oxy is well positioned to advance low-carbon initiatives. 1PointFive's carbon removal and sequestration solution can help address Oxy's total carbon impact and help others do the same.

Mission

Deliver solutions that help curb global temperature rise to 1.5ºC by 2050.

Vision

To turn CO_2 into a valuable resource and help create a sustainable net-zero system through carbon capture and utilization.

Carbon Removal at Scale

Direct Air Capture

Direct Air Capture (DAC) is the process of removing CO_2 directly from the air. 1PointFive DAC plants are designed to remove large volumes of CO_2—up to one million tonnes per year, per plant. The CO_2 can then be safely and securely stored deep underground in 1PointFive's geologic sequestration hubs to generate a carbon removal credit or be purified and utilized for fuel synthesis or other purposes.

Geologic Sequestration

CO_2 sequestration hubs will be dedicated to underground CO_2 storage in saline formations. The sequestration process will be supported by leading experts with decades of reservoir engineering experience. Globally recognized sequestration protocols for CO_2 storage safety, security and monitoring, reporting and verification will be in place.

CO_2 to Fuel Synthesis

1PointFive plans to bolt on fuel synthesis processes to DAC facilities and use the captured CO_2 to create low-carbon diesel and jet fuels. This process will create a synthetic fuel with an estimated emission reduction factor of up to 90 percent when compared to conventional diesel and jet fuels.

Scalable Design

A key benefit of DAC is that it can support large volumes of CO_2 removal with a relatively small physical footprint. By rapidly developing DAC technology, we are preparing the infrastructure to help reach and sustain net-zero emissions.

Large-Volume Removal

We are designing 1PointFive's DAC facilities to be able to handle large volumes of CO_2—as much as one million tonnes per year—using a liquid sorbent that captures CO_2. The system is designed for continuous operation as air is pulled through the system. We believe this is key to delivering the climate-relevant scale the world needs between now and 2050.

Sequestration Hubs

1PointFive has secured interests in more than 300,000 acres, or more than 400 square miles, of pore space in Texas and Louisiana that could support up to five hubs with a capacity to sequester up to six billion metric tons of CO_2.

The New Carbon Economy

1PointFive is also looking to provide CO_2 for utilization as a feedstock in both established and emerging technologies. High-purity DAC CO_2 can be used in a variety of processes for everything from producing diamonds, graphite and nanotubes to plastics, cement and carbon fiber. One technology is looking to use CO_2 for developing an upgrade to lithium-ion batteries. And many groups are exploring ways to use CO_2 to produce alternative food sources to serve an ever-growing population.

It Takes a Great Team

Partnered with Carbon Engineering, 1PointFive holds an exclusive license to deploy their DAC technology in the United States and also plans to develop Carbon Engineering's DAC technology internationally. 1PointFive is also teaming with Worley, a leading global provider of professional project and asset services in the energy, chemicals and resources sectors. Worley completed the Front-End Engineering and Design (FEED) of 1PointFive's flagship DAC facility, STRATOS, designed to capture 500,000 tonnes of CO_2 per year and currently under construction in Texas' Permian Basin. In addition, 1PointFive has reached agreements with a number of leading companies that are purchasing future DAC carbon removal credits in their own efforts to reach net zero.

Visit oxy.com for more information.

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