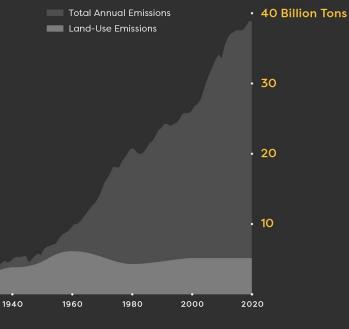


Global emissions are on the rise.

Since 1950, global $\rm CO_2$ emissions have more than quintupled. According to the IPCC, catastrophic climate change will be unavoidable if we don't reach net zero by mid-century. So far, serious efforts have relied mostly on reductions to bend the curve.

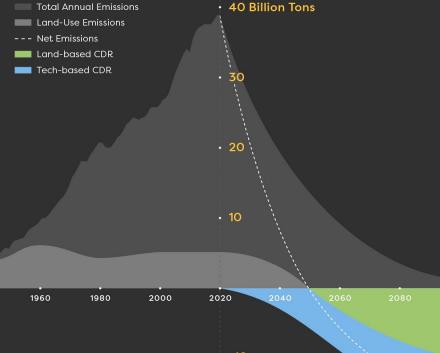


The solution? Rewind the clock.

1840

Climate goals can only be met by removing the carbon that already exist in our atmosphere. This means absorbing as much CO₂ every year as we currently emit — effectively, running the fossil fuel industry in reverse. Anything less would place an impossible burden on reduction efforts.

1860



- -10

Carbon 180 Confidential

1820

1800

Source: Rockstrom et al. A roadmap for rapid decarbonization, 201

1880

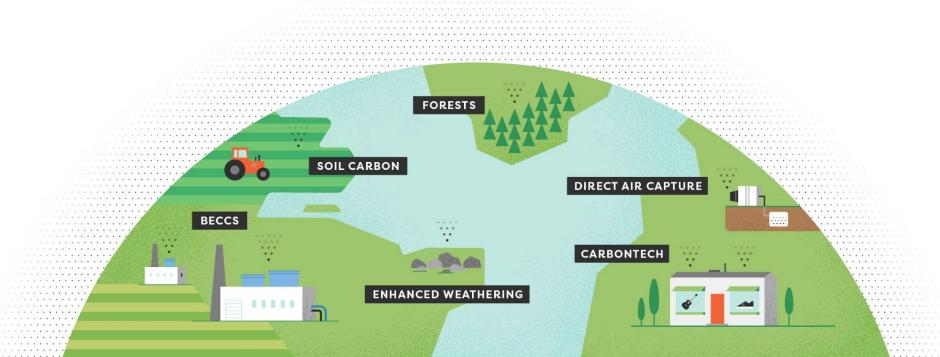
1900

1920

1940

-20 Billion Tons

Solutions are within reach.



Carbon removal is not carbon capture

Though the confusion isn't farfetched. Both climate solutions clean up carbon pollution — but differ significantly in methods and impacts.



"Sucks" existing CO₂ from the air using land-, ocean-, and tech-based pathways, rather than preventing emissions at the source

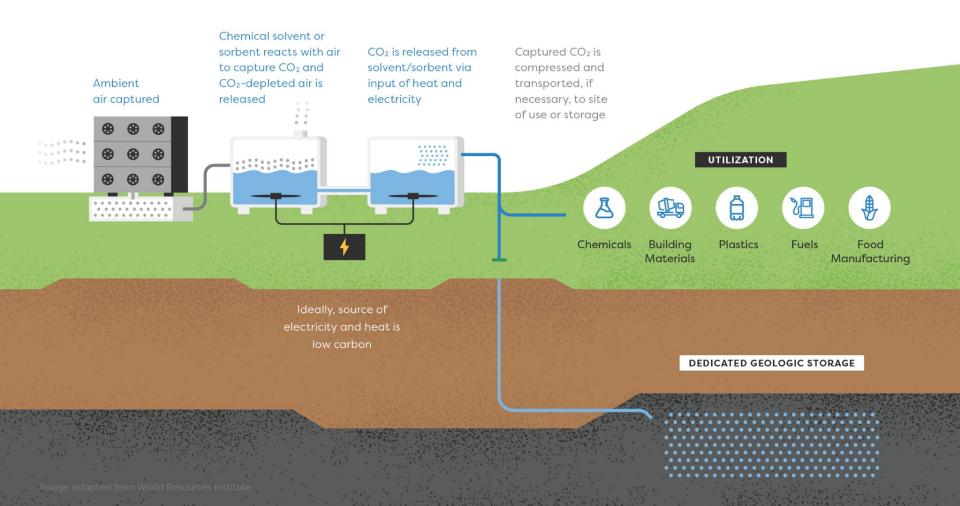
Can target *legacy emissions* and address climate impacts on frontline communities



"Scrubs" CO₂ from a *point source* — a localized source of emissions, such as a power plant or industrial facility

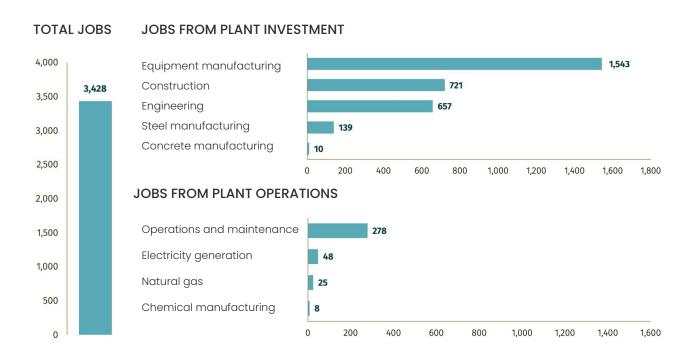
Lowers or zeroes out the footprints of traditional, carbon-intensive industries

Direct air capture



Job Creation

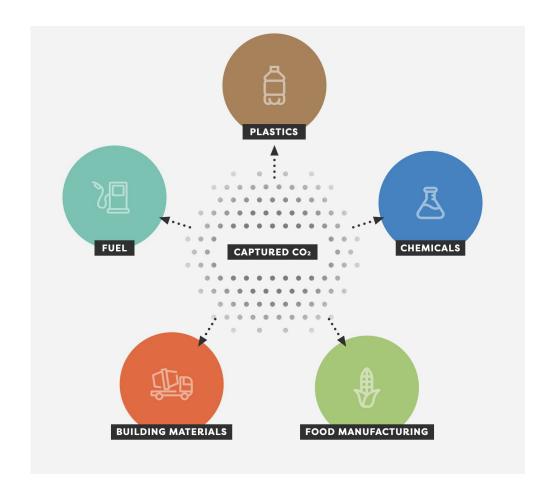
The majority of jobs are associated with design, engineering and construction of the plant as well as the manufacturing of plant equipment. A typical DAC plant requires 278 workers to maintain and operate the facility once it's constructed.



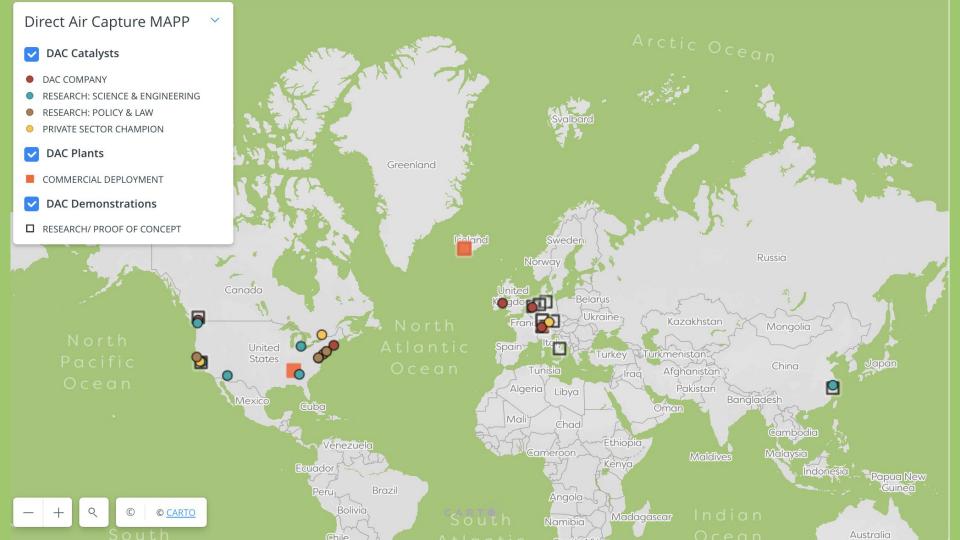
Source: IMPLAN Group, Keith et al. 2018. NAS, AISC, Rhodium Group analysis. Note: All values reflect DAC plant median cost and performance estimates. Values will vary depending on technology type and configuration.

A \$1T Opportunity

Carbon180's market-sizing report estimates a \$1T total available market in the US for product derived from $\rm CO_2-$ and \$6T globally.



Where we are today





Startup Progress





\$650M Round



287 Teams - 6 DAC companies in shortlist



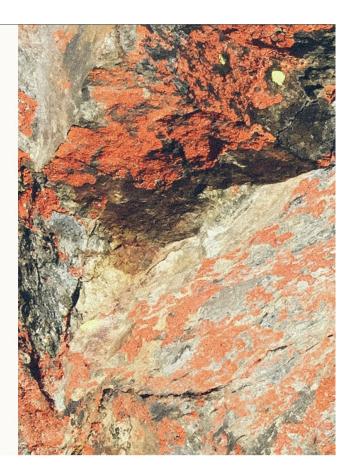
₊: Frontier

An advance market commitment to accelerate carbon removal

Frontier is an advance market commitment to buy an initial \$925M of permanent carbon removal between 2022 and 2030. It's funded by Stripe, Alphabet, Shopify, Meta, McKinsey, and tens of thousands of businesses using Stripe Climate.

Buyers
Get in touch →

Suppliers
Get in touch →







Barriers to Scale



Current capture costs are \$200-\$600/ton of CO_{2'} but need to be much lower to be deployed at scale.



Durable Markets

Private sector companies are starting to purchase DAC tons, but long-term, high quality markets are necessary



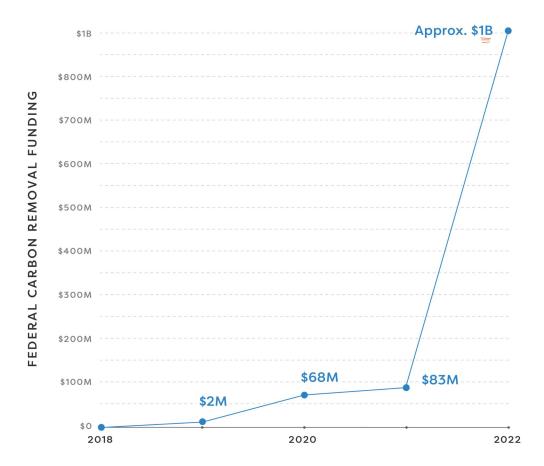
Shared Infrastructure

Many smaller DAC companies face barriers developing geologic and energy infrastructure

Policy Opportunities

\$1 Billion in FY22

Funding for CDR has increased more than 1500% in just two years.





New Policy Action

\$3.5B for DAC Hubs

Supports 4 regional, million-ton-scale direct air capture and storage hubs across the US

CDR RD&D Legislation

Engaging in efforts to secure next-level support for CDR RD&D + improve cross-agency coordination

SCALE Act

Provides financing and implementation support for ${\rm CO_2}$ transportation and storage networks

ESIC Act

Investment tax credits supporting direct air capture alongside other clean energy technologies

Funding for EPA Class VI

Expanding the agency's capacity to permit CO₂ storage

Procurement

Leveraging state wins to scale federal purchasing of carbontech materials and new legislation on direct air capture procurement

Policy Opportunities



Updated 45Q

Increasing the
DAC-to-storage 45Q tax
credit, reducing the capture
thresholds, and instituting
direct pay



Federal Procurement

Creating a long-term, durable market for DAC to scale + setting standards



Modernize Regulation

Ensure we have the necessary regulations that both protect communities and work for startups