

# The DAC Dispatch



Direct Air Capture  
Coalition

*Welcome to The DAC Dispatch, the monthly newsletter from the DAC Coalition,  
keeping you up-to-date with the evolution of all things DAC.*

**August 2023**

## THE DAC HUBS/GLOBAL DAC CONFERENCE EDITION

August marks a historic month for direct air capture industry with the landmark announcement by the US Department of Energy of \$1.2Bn in funding to DAC companies and partners through the DAC Hubs initiative. In another first, the U.S Department of Energy announced their intentions to pay for CO2 removal in one of the first examples of national level CO2 procurement.

This month also saw the Direct Air Capture Coalition along with its partners Breakthrough Energy, RMI and Columbia's Carbontech Development Initiative launched the Global Direct Air Capture Conference taking place on October 16-17th in New York City - we hope to see you all there!

**GLOBAL  
DIRECT AIR CAPTURE  
CONFERENCE**  
**Scaling Together for Impact**

**DATE:**  
16-17TH OCTOBER 2023

**LOCATION:**  
NEW YORK CITY  
LERNER HALL, COLUMBIA UNIVERSITY

## Register Now

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## Coalition Updates

(since May)

# 6

DAC Companies

[Avnos](#)

[South Ocean Air](#)

[Gaia Refinery](#)

[Recarbn](#)

[Heimdal](#)

[EDAC Labs](#)

# 1

Ecosystem Member

[Fervo Energy](#)

# 4

Stakeholder Partners

[XPRIIZE Carbon Removal](#)

[Carbon Removal Alliance](#)

[4 Corners Carbon Coalition](#)

[Center for Climate and Energy  
Solutions](#)



## Market Updates

### Updates from United States Department of Energy (DOE)

1) The DAC Hubs program revealed its winning applications with [two regional hubs](#) being announced in Texas and Louisiana named **South Texas DAC Hub** and **Project Cypress**, respectively. These commercial-scale facilities will be capable of capturing up to 1 million tonnes per year at each facility.

Project Cypress is consists of DAC developers (and DAC Coalition Founding Members) [Climeworks](#) and [Heirloom](#), Battelle as the Hub owner, and Gulf

Coast Sequestration as the geologic sequestration partner. 1PointFive and Carbon Engineering lead the South Texas DAC Hub with CarbonDirect advising on life cycle analysis and community engagement, Worley Group as EPC partners and Lawrence Livermore National Laboratory and Texas A&M overseeing workforce development, Justice40 tracking, environmental protection, and local education.

The DAC Hubs program also directed funding towards [19 projects](#) that explore options for Hub design and feasibility. Congratulations to those companies that were selected, including DAC Coalition members:

1. [Aircapture](#) (Southeast DAC (SEDAC) Hub)
2. [Avnos, Inc.](#) (CalHub)
3. [Calcite/8 Rivers](#) (Southeast DAC (SEDAC) Hub)
4. [CarbonCapture Inc.](#) (Southwest Regional Direct Air Capture Hub & Wyoming Regional Direct Air Capture Hub)
5. [Fervo Energy](#) (Red Rocks DAC Hub)
6. [Fluor Corporation](#) (Wyoming Regional Direct Air Capture Hub)
7. [Removr](#) (Ankeron Carbon Management Hub)
8. [RMI](#) (Ankeron Carbon Management Hub)
9. [Sustaera](#) (Ankeron Carbon Management Hub)


**2) Carbon Negative Shot** - In other funding opportunities, the DOE has also announced its [intentions to fund pilots](#), including small mineralization projects and a [\\$100m DAC Commercial Prize](#), under the Carbon Negative Shot (a program that aims to bring the price of carbon removal down to \$100 per tonne by 2030). The funding opportunity announcement (FOA) will be released towards the end of 2023.

**3) Government Procurement of CO2** - Lastly, DAC Hubs are not the only policy-making history at the DOE as plans have been put in place to roll-out a \$35 million [carbon removal federal procurement program](#) in what will essentially be another advanced market commitment, analogous to Frontier. This will be the first time any government has acted as a buyer of CO2 in its attempt to clean-up climate pollution.

🏭 **CDR.fyi** released its [Mid-Year Progress Report](#) outlining trends and analytics covering purchases, deliveries, marketplaces, and price per tonne. DAC makes up 3% of tonnes purchased with prices sitting between \$800-2054 per tonne. Encouragingly, purchases have increased by 437% compared to full-year 2022 with models forecasting that 2023 will end with 6 million tonnes purchased representing a 10X growth on 2022.

💰 [Deep Sky](#), a Canadian project development venture looking at scaling and

commercializing durable carbon removal solutions, [has partnered with XPRIZE Carbon Removal](#) to offer competing teams the opportunity to pilot at DeepSky's facilities as well as prototyping and licensing deals worth at least \$1 million each. Deep Sky also [partnered with Svante](#) this month to test the feasibility of underground CO2 sequestration.

 **Carbon Engineering** has been [acquired by Occidental Petroleum](#) for a figure in the region of \$1.1 billion only two weeks after the Canadian DAC company completed one of the largest purchases alongside buyers ANA who [bought 30,000 tonnes](#) over the course of three years, starting in 2025.



## The DAC Coalition is pleased to launch... The DACC Map

Showing 57 of 93

Search by name or location...

**Airhive**  
Hybrid geochemical-DAC technology that leverages fluidisation to deliver fast, low cost CO2...  
51.5174, -0.1378

**CARBOMINER**  
Carbominer

DAC Company

Label

- ☐ DAC Company
- ☐ Ecosystem Company
- ☐ Observer
- ☐ Research/Academic Institution

Show all

Country

- ☐ Australia
- ☐ Belgium
- ☐ Canada
- ☐ Estonia

Show all

[DAC Coalition Map](#): Helping to bring greater transparency to the diverse DAC ecosystem and the ever-growing number of stakeholders, the interactive map can be filtered by country, name, and type of organisation.

Credit: [Tank Chen](#)



## What We're Reading

1. *Journalistic flare completes this comprehensive look at DAC policy and incentives in the US* - [The Dawn of a New Climate Industry](#) (Robinson Meyer, Heatmap)
  2. *Wrapping up the DOE's recent CDR drives* - [DOE advances three new efforts under the Carbon Negative Shot](#) - (Sasha Stashwick, Carbon180)
  3. *European carbon removal policy made easy* - [Understanding Carbon Removal Policy Across Europe: An Exclusive Analysis](#) - (Sebastian Manhart, Carbonfuture)
  4. *What does well done DAC community engagement look like? Hear it from the experts* - [In the Central Valley, exploring community-led DAC](#) (Vanessa Suarez, Carbon180)
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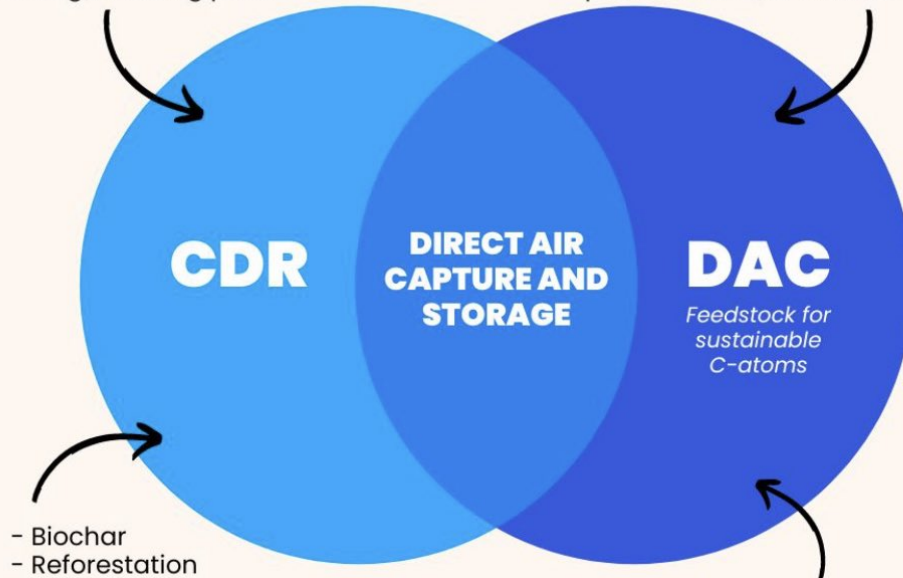


## Picture This!

# CDR IS MORE THAN DAC, BUT DAC IS ALSO MORE THAN CDR

Profitability driven by carbon  
offsetting/insetting price

Profitability driven by (negative) green  
premium and/or climate legislation



- Biochar
- Reforestation
- BiCRS
- Ocean capture
- Enhanced weathering

- Sustainable virgin plastics
- Sustainable battery materials
- Sustainable chemical commodities
- Sustainable Aviation Fuels
- Replacement of commodity grey CO2
- Sustainable lubricants
- Sustainable aromatics



Source: Torben Screiter (Extantia Capital) via [LinkedIn](#)

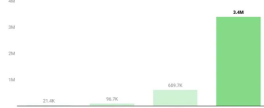


## August's Must Read

### CDR.fyi 2023 Mid-Year Progress Report

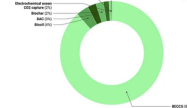
#### Carbon Removal Purchases

Total tonnes of carbon removal purchased



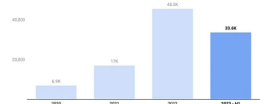
#### 2023 CDR Purchases by Method

Total tonnes by method shown as a % of 2023 purchase volume



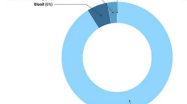
#### Carbon Removal Delivery

Total tonnes of carbon removal delivered



#### 2023 CDR Deliveries by Method

Total tonnes delivered by method shown as a % of all delivery volume



### 2023 Mid-Year Progress Report

CDR.fyi

Progress tracking, number  
crunching, and first-in-class  
CDR deal analysis.



## DACC Reports Library



### Member Spotlight



**Rondo Energy** secured a giant [\\$60m fundraising round](#) led by Rio Tinto, Microsoft's Climate Innovation Fund, Aramco Ventures, SABIC, SCG, and TITAN.

The funds will help Rondo advances the development of low-carbon industrial heat and power products including the trademark Rondo Heat Battery.



**EDAC Labs** secured a [\\$3m Seed round](#) to advance their electrochemical-based DAC with the Grantham Institute for the Protection of the Environment leading the round.



Ukrainian-based DAC company Carbominer, successfully completed the construction of its [1-tonne pilot project](#) in Vienna alongside a prominent corporate partner, taking its technology to TRL6



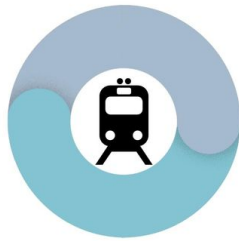
**Carbon Reform**, aired a [short-form documentary](#) on national television, hosted by actor Dennis Quaid



**Cella Mineral Storage's** CTO Dr. Claire Nelson and **Breakthrough Energy** U.S Carbon Management Policy Manager Jack Andreasen were interviewed on the [Carbon Curve podcast](#) about carbon storage.



[CO2CRC Otway International Test Centre](#) have secured the necessary permits for subsurface injection and are exploring partnerships with DAC companies who need to test their technologies in advance of the XPRIZE final stages.



## DACC on the Road



**Africa Climate Summit**  
**Nairobi, Kenya**  
**4-6th September**



We've been working hard behind the scenes to help organize the two durable removals sessions that will take place at the Africa Climate Summit, both of which look to elevate the role Africa can play in creating a carbon removal hub.

**If you plan on attending the summit, register below to join us for the Carbon Removal Community Reception on the September 7th!**

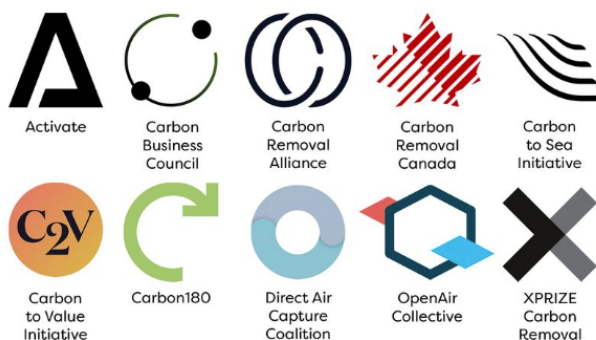
(It is a private event so note the DAC Coalition in your message)

**Reception Registration**





## Events



### The NYC Climate Week Carbon Removal Happy Hour

 Monday, September 18th, 6-8pm ET

#### [New York Climate Week Carbon Removal Happy Hour](#)

18th September

Join us and our fellow carbon removal ecosystem partners for another happy hour event during New York Climate week. You can view all the relevant carbon removal events that are happening across the week [here](#).



#### [Activate New York Open House - Fellowship Recruitment Social Hour](#)

**Wednesday 23rd August**

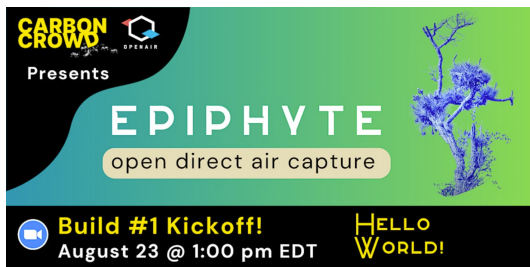
Interested in applying for Activate's Fellowship or subsequent cohorts? Join the Activate staff and previously fellows and ask any questions you may have!



#### [Deep Dive on DAC Hubs](#)

**Wednesday 30th August**

AirMiners is hosting an event unpacking the impact of this landmark policy and how these hubs will enable the development of DAC in the United States.



### Kickoff! Epiphyte: Open, Crowd-Generated Direct Air Capture

**Wednesday 23rd August**

Epiphyte is an indoor, electrically-powered thermal swing direct air capture (DAC) prototype that will be continuously adapted and improved by OpenAir's global community through a sequence of 2-month build projects. Tune in to share updates and ideas about open-source DAC development!

### 2023 Carbon Management Research Project Review Meeting

**August 28 - September 1, 2023**

**David L. Lawrence Convention Center,  
Pittsburgh**

Join the Department of Energy (FECM) and National Energy Technology Laboratory (NETL) for the chance to hear the knowledge and insights gained by more than 150 Department of Energy-sponsored R&D projects



## **Need a New Role?**

Looking to move your career into Direct Air Capture? Check out these positions and more on the DACC Jobs Board!

- [Head of People](#) (**Heirloom**, California)
- [Science Manager](#) (**Isometric**, New York)
- [Business Development Manager](#) (**Carbonfuture**, EU (remote))
- [Senior Process Engineer](#) (**Recarbn**, Netherlands)
- [Policy Lead, Europe](#) (**Patch**, London (remote))

*All vacancies are made available on the DAC Coalition Jobs Board (powered by Climatebase)*

**DACC Jobs Board**

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info@daccoalition.org

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