

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.

February 2024

With new projects and partnerships being announced in Brazil (DACMa GmbH), Kenya (Cella/Carbon Atlantis) and Australia (Capture6), DAC is increasing its global presence and demonstrating its versatility.

However, headlines this month come from the European Union where the legislative process around the Carbon Removal Certification Framework (CRCF) was concluded. This marks a formative signal to the rest of the world on how to operationalize the different roles and applications of high-quality carbon removal. The EU also revealed its Industrial Carbon Management Strategy, heavily implicating the role of CDR.

On the other side of the pond, the U.S Department of Energy released a further \$100m for durable carbon removal with a specific focus on funding first-of-a-kind (FOAK) pilots.



Market Updates

💰 **Clairity Technologies** [raised a \\$6.75m Seed](#) round led by Lowercarbon Capital and Initialized Capital to advance their low-purity CO₂ DAC.

💰 **Carbominer** [secured a €1.5m](#) grant from EIC Accelerator with up to €7.5m accessible in follow-on equity.

💰 **Avnos** raised a [further \\$36m](#) in their Series A round led by utility giant NextEra Resources, raising their total funding to over \$100m. Their "hybrid"

DAC approach co-produces water alongside permanent carbon removal.

🌐 New DAC start-up, **280Earth**, [came out of stealth mode](#) after being spun out of Google's X lab. The company received \$15m funding from Catalyst4 to advance their the utilization of waste heat from data centers.

🔬 New research from **University of Illinois Chicago and Argonne National Laboratory** [puts generative AI to the test](#) in search for new metal organic frameworks (MOFs) for carbon capture, identifying six highly performing structures out of over 120,000 combinations.

📄 **Circular Carbon Network**, an XPRIZE initiative, released their [2023 Market Report](#) with headlines stating that carbon removal companies raised 74% of all circular carbon funding in 2023. A report launch webinar will be held on 29th February, registration, [here](#).

🤝 **Rockwell Automation**, the world's largest company dedicated to industrial automation and digital transformation [signed a purchase agreement](#) with 1PointFive.

⚖️ The final text of the **EU Carbon Removal Certification Framework (CRCF)** was agreed upon, notably differentiating between carbon farming, permanent removals (inclusive of biochar and enhanced rock weathering), and carbon products. The text also adopts the IPCC definition of carbon removal and calls for clear linkages to other EU regulation. Read Carbonfuture's takeaways, [here](#).

⚖️ The **European Commission** released [its official communication](#) on the **EU 2040 Climate Targets** stating a need for 400Mt of undifferentiated carbon removal in the most ambitious scenario of 90% emission reduction by 2040. The EU have also confirmed an annual CO2 storage target of 50Mt after the **Net-Zero Industry Act (NZIA)** was realized. The NZIA [notably failed to define](#) carbon removals as a net-zero technology.

💰 The **U.S Department of Energy** announced \$100m in funding for durable carbon removal projects including up to \$4m for 10 small ex-situ mineralization pilots and up to \$5m for five multi-CDR testbeds. [Applications](#) due 16th April.

🤝 **CarbonX** facilitated over [\\$7m in high-quality CDR procurement](#) across six pathways including DAC. 26,000 tonnes of CO2 were committed with an average price of \$269 per tonne.

✈️ **Spiritus** has [committed to removing the emissions](#) from **Taylor Swift's**

flights from Japan to Super Bowl in Las Vegas on her private jet. The San Francisco-based start up noted that the flight emitted 40 tonnes of CO2 and could be removed for \$28,000.



What We're Reading

1. [Carbon Credit Buyer Preferences Are Rapidly Shifting](#) (Mark Le Dain, Forbes)
 2. [Why transparency is key to scaling carbon removal](#) (Nasim Pour and Leila Topic, illuminem)
 3. [Geologic Sequestration of Carbon Dioxide: The State of Responsible Primacy](#) (Jake Ferrell and Simone Stewart, NWF)
 4. [Removing to Net Zero: 5 Carbon Removal Insights for CSOs](#) (Climeworks)
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February Must Read



[Will Direct Air Capture Ever Be Affordable?](#) [The Rise of DAC 3.0](#)

Torben Schreiter and Jonte Boyson -
Extantia Capital

An excellent article that highlights the technological diversity and provokes thoughts on why some of the newer start-ups might have a distinct advantage when it comes to bringing down the cost of DAC.



In Case You Missed It!

The video thumbnail features a dark blue background with the Bipartisan Policy Center logo at the top left. The main text reads "DAC DAY 2024" in large white letters, followed by "HOPES, HUBS, and HURDLES" in a slightly smaller font. A red play button icon is centered over the text. Below the main text, it says "THURSDAY, FEBRUARY 8, 2024 | 1:00 p.m. ET" and "WASHINGTON, DC AND VIRTUAL".

Bipartisan Policy Center
DAC Day 2024
(Run Time: 4hrs 30min)



Member Spotlight



[DACMA announces expansion into Brazil](#) with DACMA BRASIL LTDA with two projects planned for construction. The first, a 300t/yr plant,

will be operational in July followed up by 5000t/yr system in partnership with SENAI CIMATEC.



[DeepSky](#) and [Carbyon](#) partner to deploy two of the Dutch developer's fast-swing units, each capable of removing 50t/yr.



Congratulations to DAC Coalition members, [Carbon Atlantis](#) and [Cella](#) who announced a partnership to test Carbon Atlantis's CO2 later this year at Cella's pilot site in Kenya.



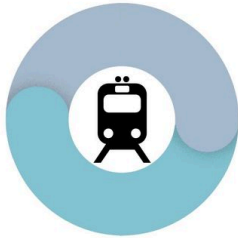
[Capture6](#) and [Pilot Energy](#) agreed to work together on **Project Wallaby**, a [pilot demonstration facility](#) integrated into Pilot's Mid West Clean Energy Project (MWCEP) in Western Australia. MWCEP aims to produce up to 1.2Mt of green ammonia per year. Capture6 will generate additional freshwater and co-produce green hydrogen



[Global Thermostat](#) revealed [their containerized multi-ton T-Series](#) product with the first unit being commissioned to be integrated into microalgae production. The T-Series joins the K-Series (kiloton scale unit) in Global Thermostat's roster.



[Mission Zero Technologies](#) surpassed an important milestone of [over 1000 hours](#) of operating their electrochemical separation technology.



DACC on the Road



ClimatImpact Roundtable - London Carbon Council

Our UK and Europe Lead, Aaron Benjamin, was invited to attend ClimatImpact's Carbon Council to discuss the unique funding needs for DAC and aligning communication strategies to prevent fracturing and mistrust.



Events



HAPPY HOUR!
NYC CARBON REMOVAL

WEDNESDAY NOV 29
6:00-8:00
HOUSTON HALL, SOHO

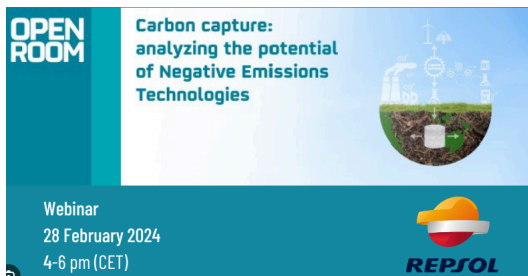


 **OPEN AIR**
presents
THIS IS CDR

NYCDR Happy Hour

February 27th - Houston Hall, New York City - 18:00 (ET)

Join the DAC Coalition, Open Air Collective, Carbon Business Council, Carbon180, C2V Initiative and Activate for the first New York CDR Happy Hour of 2024. Registration, [here](#).



This is CDR - Holocene

February 27th - 17:00-18:00 (GMT)

Joining the Open Air Collective team is Co-founder and CEO of Holocene, Anca Timofte. Holocene develops novel low-temperature and has received backing from Frontier, Department of Energy and XPRIZE. Registration, [here](#).

Carbon Capture: Analyzing the Potential of Negative Emissions Technologies.

February 28th - 16:00-18:00 (CET)

Organised by The Repsol Foundation Energy Transition Chair at the Rovira i Virgili University, speakers include DACMA Head of R&D Benjamin Scharrer and Antonio Pérez-Lepe, Manager of Innovation and Technology at Repsol Foundation. Registration, [here](#).



Catalyzing Carbon Dioxide Removal at Scale (Webinar)

March 6th - 18:00 (GMT) / 13:00 (ET)

The B.C. Centre for Innovation and Clean Energy (CICE) alongside Innovative Breakthrough Energy Technologies (IBET Climate) reveal some of the major findings of their recent report on DAC+mineralization. Registration, [here](#).



To Net-Zero and Beyond: A carbon removal strategy for Europe (Hybrid, Brussels)

March 19th 08:00-13:00 (GMT)

Join CarbonGap and a roster of top European speakers to discuss four critical pillars of their policy strategy: integration into compliance markets, funding for research and innovation, deployment incentives, and climate justice. Livestream registration [here](#)



Need a New Role?

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

- [Business Development Manager](#) (Heirloom, California)
- [Accountant](#) (DeepSky, Remote, Montreal)
- [Operations Associate](#) (Isometric, London)
- [Cloud Engineer](#) (Climeworks, Zurich)

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

[DACC Jobs Board](#)



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