

# 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.*

## **September 2023**

Those of you that read the Dispatch regularly know that each month we highlight the historic nature of DAC announcements, and once again we are excited to say September has been a month that will go down in the DAC history books.

Amazon and Microsoft signalled their commitment to direct air capture with two large purchases from CarbonCapture and Heirloom, respectively. New York Climate Week proved once again to be an essential date for your climate calendars with the oversubscribed Puro.Earth CDR Summit, Climeworks announcing their intentions for Kenya, and Open Air Collective concluding the final of the inaugural Carbon Removal Challenge. The inaugural Africa Climate Summit affirmed the role Africa can play in building a significant carbon removal industry and we secured an exciting roster of speakers for our inaugural Global Direct Air Capture Conference October 16-17.



## **Conference Updates**

2023  
Global Direct Air  
Capture Conference

October 16-17  
Columbia University

## New Speakers Announced



**Dr. Klaus Lackner**  
Professor & Founding Director,  
Center for Negative Carbon



**Dr. Jane Flegal**  
Market Development  
& Policy Lead,  
Stripe Climate & Frontier



**Doreen Harris**  
President & CEO,  
NYSERDA



**Dr. Holly Jean Buck**  
Assistant Professor,  
University at Buffalo



**Andrew Kamau**  
Managing Director,  
Energy Opportunity  
Lab, CGEP



**Dr. Jennifer Wilcox**  
Principal Deputy Assistant Secretary,  
Department of Energy, Office of Fossil  
Energy & Carbon Management



**Brian DiMarino**  
Managing Director and Head of  
Operational Sustainability  
JPMorgan Chase



**Dr. Edda Aradóttir**  
CEO & Carbon Disposer  
Carbfix & Reykjavik



**Julie Gosalvez**  
CMO  
Climeworks



**Cody Evans**  
Director, Catalyst Team  
Breakthrough Energy



**Dr. Chris Bataille**  
Adjunct Research Fellow  
Center for Global Energy Policy



**Shashank Samala**  
CEO  
Heirloom



Direct Air Capture  
Coalition



Breakthrough  
Energy

CARBONTECH  
DEVELOPMENT  
INITIATIVE



# Register Now

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## Coalition Updates

# 4

DAC Companies

[Jeevan Climate Solutions](#)

[Carbon Atlantis](#)

[LowCarbon](#)

[Holocene Climate](#)

# 2

Ecosystem Companies

[Deep Sky](#)

[Leybold](#)

# 2

Stakeholder Partners

[Carbontech Development Initiative](#)

[University of Illinois Sustainable](#)

[Technology Center \(ISTC\)](#)



## Market Updates

📄 A [Memorandum of Understanding](#) has been signed by **Climeworks** and Kenyan project developers **Great Carbon Valley** to explore deploying large-scale direct air capture in Kenya by 2028.

💡 London-based electrochemical DAC company **Mission Zero Technologies (MZT)** [partner with Canadian project developers Deep Sky](#) to license and deploy MZTs first-of-a-kind 250t/yr unit with plans to scale capacity to 0.5-1Mt/yr.

⚖️ **US Senator Brian Schatz (D-HI) and Rep. Paul Tonko (D-NY)** have introduced the [Carbon Dioxide Removal Research and Development Act of](#)

[2023](#) into the House of Representatives. The bill provisions \$12Bn for carbon removal R&D as well as \$2 billion program for carbon removal demonstration projects.

🏦 **HSBC** bank earmarks [\\$1 billion in a new fund](#) that focuses on early-stage climate tech including carbon removal.

👉 **Frontier**, now on the 3rd purchase cycle, announced their [Fall 2023 recipients](#) and allocated \$3m out of the \$10m in pre-purchase agreements to DAC start-ups namely: **Airhive, Spiritus, Holocene, EDAC Labs, and Carbon Atlantis**.

📊 [New BCG report](#) estimates that carbon removal market could reach \$135Bn by 2040 should demand reach between 200-870Mt/yr.

📖 The role of businesses in advancing the responsible deployment of carbon removal has been widely discussed this month with **Carbon Business Council & BMW Foundation Herbert Quandt** releasing a report on [Accelerating the Carbon Removal Market Through Responsible Corporate Leadership](#) and the **World Business Council for Sustainable Development** also publishing their thoughts on [Removing carbon responsibly: A guide for business on carbon removal adoption](#)

💰 **Amazon** entered into direct air capture with a commitment to [purchase 250,000 tonnes](#) over a 10-year period from **1PointFive's Stratos Plant**. The tech giant also announced an investment into **CarbonCapture** Inc cut using their \$2Bn Climate Pledge Fund.

💰 **Microsoft** again demonstrated their commitment to the technology with a [purchase of 315,000](#) tonnes spread across 10-years with **Heirloom**.

▶️ Columbia University's **Carbontech Development Initiative (CDI)** opened its [5th round of solicitations](#) for its research and commercialization grants in Carbon Capture Technology, Carbon-to-BuildingMaterials, Carbon-to-Chemicals/Fuels/Materials. The [Activate Fellowship](#) is open to a new round of applicants as is the [Carbon13 accelerator](#).

▶️ The [gener8tor Direct Air Capture \(DAC\) Accelerator](#) launched with the promise of \$100k of investment in five innovative startups per cohort carbon dioxide removal (CDR) systems. **Clean Air Task Force** will act as an advisor to the programme.

🏆 DAC Coalition partners **CDI, Activate, and Carbon 2 Value Initiative**, all

were among the 13 semifinalists selected by the U.S Department of Energy for [DAC Energy Program for Innovation Clusters \(EPIC\) Prize](#).

🪨 **Climeworks** and **Carbfix** announced a partnership with Puro.Earth [to certify their DAC+S methodology](#) under Puro's Geological Sequestration Standard.

⚖️ **Institute for Carbon Removal Law and Policy** have developed [a tracker](#) to follow corporate carbon removal action and commitments.

🏆 The Direct Air Capture Coalition is an Official Nominator for [The 2024 Earthshot Prize](#), application are now open and can be submitted to the prize via the Coalition.

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*Climeworks featured in BBC StoryWorks*



## What We're Reading

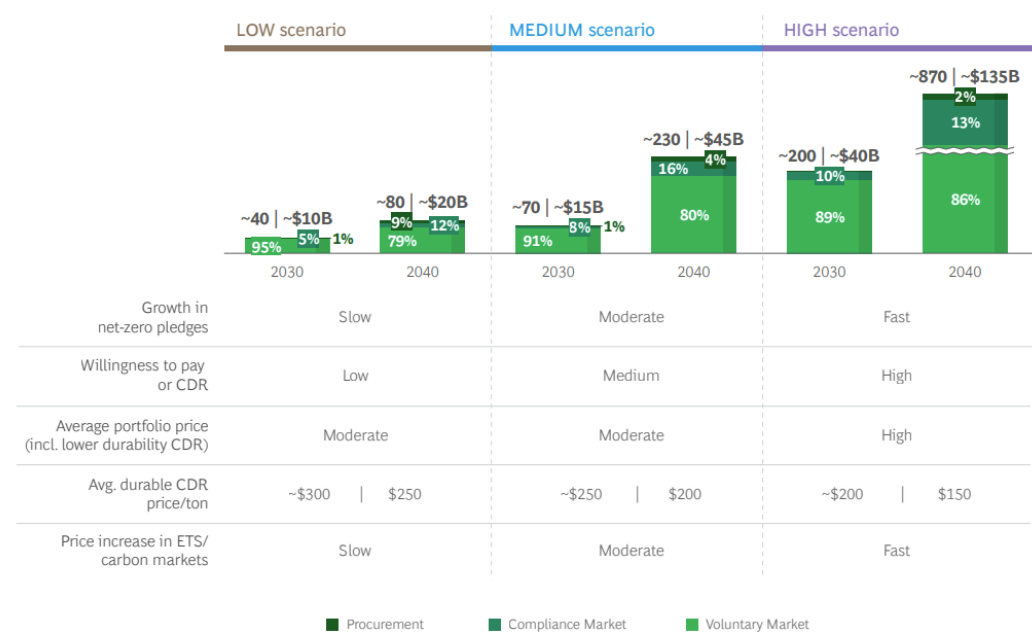
1. *Notable challenges in governance of tech-based CDR across three different geographies-* [International Governance of Technological Carbon Removal: Surfacing Questions, Exploring Solutions](#) (Katie Lebling, Clea Schumer and Danielle Riedl, WRI)

- 2. *Priority setting and DAC categorization for a new research and deployment agenda* - [A roadmap for achieving scalable, safe, and low-cost direct air carbon capture and storage](#) (RMI and Herriot-Watt)
- 3. *Analyzing the trade-offs of different approaches to DAC and whether there is a winning way* - [Will One Winner Take It All In Direct Air Capture?](#) (Poppy Russell, Counteract)
- 4. *Analyzing the ripples caused by carbon removal's first big acquisition and what it means for DAC's projections* - [Occidental's Big Buy May Change Course of \\$150 Billion Market](#) (Julia Attwood, BloombergNEF)



# Picture This!

Figure 3 - 2030-2040 durable CDR demand (Mt CO<sub>2</sub>) and market size (\$B) across scenarios



Source: BCG analysis, June 2023.

Source: [The Time for Carbon Removal has Come](#) (BCG, 2023)

The market of CDR could reach up to \$135Bn by 2040 should demand reach 870Mtpa and prices fall between \$200-150



## September's Must Read

**The Time for Carbon  
Removal Has Come**

### **The Time for Carbon Removal has Come**

*Boston Consulting Group*

A landmark reports complete with market-size predictions and associated dependencies, market enablers, demand outlook, and the contributions of different industries to CDR demand.

## DACC Reports Library

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## Member Spotlight



Purchase Cycle #3

## Congratulations to DAC Coalition members



SPIRITUS

HOLOCENE



CARBON ATLANTIS

Congratulations to **Airhive**, **Spiritus**, **Holocene** and **EDAC Labs** who were selected by Frontier as part of their 3rd purchase cycle signing pre-purchase agreements each company at a value of \$500k each.



Irish DAC company successfully [demonstrated their prototype machine](#) capable of removing 1.2t/yr laying the ground for their 400t pilot due to come online in mid 2024.



In Hamburg, German DAC company Blancair also successful demonstrated their [15t/yr prototype](#) scheduled for commission at Pontifical Catholic University of Rio Grande do Sul (PUCRS) in December 2023.



Carbon Reform co-CEO, Jo Norris, wrote an op-ed on [Indoor Air Quality: The Hidden Climate Culprit](#) for the MCJ Newsletter.



SPIRITUS

Congratulations to San Francisco-based Spiritus completed an [\\$11m Series A](#) round led by renowned venture fund, Kholsa Ventures.



**DEEP SKY**

Canada's new large-scale project development company, Deep Sky, [announced their new CEO](#) as Darren Steel. Previously, Steel served as Managing Partner and Global Head of Ventures at one of Canada's largest pension providers.



## DACC on the Road

### **Africa Climate Summit 2023**

*Nairobi, Kenya*

(top) A field visit to Octavia Carbon's manufacturing site gave us an opportunity to see how the 34-strong team was progressing in their builds.

(bottom right) The DAC Coalition was fortunate to play a key role in Africa Climate Summit helping to organise the 'durable removals' pillar which included a panel of "How to Build a World Class Durable Removals Ecosystem in Africa" in which Co-founder, Jason Hochman, was a panelist.

(bottom left) Alongside Great Carbon Valley and Africa Climate Ventures, The DAC Coalition hosted a Carbon Removal Community Reception for the folk on the ground in Nairobi.



**S3E53: Are you coming to the Global Direct Air Capture Conference?!—w/ Jason Hochman of the Direct Air Capture Coalition**

Listen to the Episode...

▶ 0:00 / 42:05



Our Co-founder and Senior Director, Jason Hochman, was invited onto [Nori's Reversing Climate Change Podcast](#) to discuss the conference and its potential impact for the sector, Kenya's potential and the role of oil and gas.

Check out the episode [here](#)



**Airminers Event Series:** [DAC Hubs](#)  
[101](#)

Featuring Jason Hochman (DAC Coalition), Courtni Holness, (Carbon180), Vikrum Aiyer (Heirloom) expertedly moderated by Justine Davids (Carbon Direct).





## Events



INSTITUTE *for* CARBON REMOVAL  
LAW AND POLICY

### RepAir DAC and Climate Tech Field Visit

18th October, Northern Israel

To mark the launch of their first DAC system, RepAir are organizing a field trip in Northern Israel where you'll have the opportunity to engage with experts, witness groundbreaking startups and technologies, and gain valuable insights into the future of climate tech in Israel.

### Third Annual Conference on Carbon Dioxide Removal Law & Policy: Carbon Removal Deployment

9th November (Hybrid)

The theme for this year's conference is "From Proposals to Projects: The Emerging Carbon Removal Landscape in the US." The theme reflects the evolution of the CDR sector in the past few years from the largely notional, to a potentially very major player in helping the global community to confront climate change



## Need a New Role?

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

- [Strategic Associate - Direct Air Capture](#) (**Fervo Energy**, Remote)
- [Development Associate or Manager](#) (**Capture6**, Remote)
- [Executive Assistant to CEO](#) (**Deep Sky**, Remote)
- [Community Lead - Louisiana](#) (**Heirloom**, Louisiana, US)

- [Electrical, Controls, & Automation Engineer](#) (Clairity Technologies, CA, US)

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

## DACC Jobs Board

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