



## REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

# UPDATE

February 17, 2023

### **Reminder: Register Now for GPI's Direct Air Capture Atlas Webinar**

Join the Great Plains Institute on March 2 at 12 PM ET for a virtual event to mark the launch of our upcoming report: *An Atlas of Direct Air Capture: Opportunities for Negative Emissions in the United States*.

Register here: [Virtual event: Direct Air Capture Atlas Webinar](#)

### **NETL to Host Direct Air Capture Site in Pittsburgh**

A new facility will be established at NETL's Pittsburgh campus with the goal of jumpstarting the development of direct air capture (DAC) technologies that can provide new economic opportunities while lowering the quantities of carbon dioxide (CO<sub>2</sub>) in the planet's atmosphere.

Last year, Congress authorized \$25 million for the new NETL Direct Air Capture Center. Scheduled to come online during the summer of 2024, the new facility will accelerate the commercialization of DAC technologies beyond the conceptual stage. The facility will provide developers with the ability to operate over a wide range of conditions, which will enable a better understanding of how various DAC technologies respond in different climates, from summer to winter and arid to tropical.

Read more [here](#).

## **Governor John Bel Edwards requests clarity from EPA on Class VI primacy application**

Louisiana Governor John Bel Edwards (D) penned a letter to EPA Administrator Michael Regan seeking an update on his state's request for primacy in regulating Class VI wells. Currently, only North Dakota and Wyoming have primacy over EPA in granting Class VI permits.

Governor Edwards wrote in the January 18 letter that “I believe that more information on the progress of Louisiana’s Class VI application would help encourage potential CCS operators to make firm investment decisions and to plan accordingly for meeting the specifics of Louisiana's Class VI standards.”

You can read Governor Edwards' letter to EPA Administrator Regan [here](#).

## **CO<sub>2</sub> Transport Essential for Carbon Capture to Meet Emissions Goals**

As companies across the US start using carbon capture or direct air capture to reduce the nation’s carbon dioxide (CO<sub>2</sub>) emissions, we need to plan how we’re going to transport the CO<sub>2</sub> to sites for secure geologic storage or utilization. The Great Plains Institute recently released a [blog](#) on CO<sub>2</sub> Transport Infrastructure, providing an overview of how CO<sub>2</sub> is currently transported and regulated in the United States.

While the US has over 5,000 miles of CO<sub>2</sub> pipelines already, current estimates indicate that we need to expand by up to 68,000 miles to meet net zero and midcentury climate goals. To make this goal a reality, there will need to be public understanding and trust in the CO<sub>2</sub> pipeline regulatory process and government and industry coordination to ensure that pipelines continue to transport CO<sub>2</sub> safely and reliably.

Read more [here](#).

## **US Carbon Capture Firm LanzaTech Goes Public**

On February 10, LanzaTech began trading on the Nasdaq, marking a first for the carbon utilization industry. LanzaTech, an innovative carbon capture and transformation company specializing in converting captured carbon into materials such as fuels, fabrics, and other products, will trade under the tickers LNZA and LNZAW.

Jennifer Holmgren, chairwoman and CEO of LanzaTech, said that “today marks a tremendous milestone in our company’s journey, as the first shares of LanzaTech common stock will trade on Nasdaq, as we successfully navigated our business combination transaction with AMCI Acquisition Corp. II. We are thrilled to complete this transaction, and begin this new chapter in

the company's history as we transition to a public company. The proceeds enabled by this transaction, coupled with the additional strategic partnerships we have signed with some of the largest energy and industrial leaders across the globe, provide a significant runway for us to drive shareholder value and execute on our mission of providing equal access to a post pollution future for all."

Read more [here](#).

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## News Roundup

- [Carbon Capture Build-Out Needs Policy Gains to Leverage Credits \(Bloomberg Law\)](#)
- [Biden administration to sell new oil leases while nurturing offshore wind and carbon capture opportunities \(World Oil\)](#)
- [U.S. coal power refuses to die. What that means for climate. \(E&E ClimateWire\)](#)
- [Is the Petra Nova restart bullish for coal carbon capture? \(Factset\)](#)
- [Industry call for a standards body for long-duration carbon dioxide removal \(Open letter from 44 signatories\)](#)
- [Carbon Technology Research Foundation announces new funding for CDR \(carbonherald.com\)](#)
- [MCi Carbon and RHI Magnesita partner to decarbonize refractories \(carbonherald.com\)](#)
- [World's first waste incineration plant with carbon capture and storage \(Innovation Origins\)](#)
- [New carbon removal VC fund Counteract raises \\$42M \(carbonherald.com\)](#)
- [Cembureau warns against 2041 deadline to cut industrial CO<sub>2</sub> emissions \(Global Cement\)](#)
- [Running tide to partner with Deloitte to ensure quality of carbon credits \(carbonherald.com\)](#)

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## Global News

- [Belgium And Germany Sign Hydrogen And Carbon Capture Agreement \(carbonherald.com\)](#)
  - [Alberta offers to work with Trudeau on carbon capture - with conditions \(reuters.com\)](#)
  - [Carbon Clean inks CCUS deal with Ørsted for green shipping fuel plant \(BusinessGreen\)](#)
  - [Chevron Allots \\$26M to Carbon Capture and Storage in Australia \(carboncredits.com\)](#)
  - [First Carbon Capture System Installed on EPS Managed Tanker \(The Maritime Executive\)](#)
  - [Shell inks deal to explore carbon capture in Egypt \(gasworld.com\)](#)
  - [U of C researchers helped lay groundwork for 'carbon negative' technology that pulls CO<sub>2</sub> from the air \(Calgary Journal\)](#)
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## New podcasts, reports, statements & blogs

- [What Does the EU's New Carbon Border Adjustment Mean for the US? | Blog \(thirdway.org\)](#)
  - [Study finds low risk from sequestered carbon \(Journal of Petroleum Technology\)](#)
  - [New research from SINTEF and TU Delft shows that CCS can result in significant CO2 reductions at a marginal cost \(sinteff.no\)](#)
  - [Inject baby inject!: Class VI wells part 1 \(Carbon Miners Club Newsletter\)](#)
  - [Carbon abatement or CCS? The answer is both \(Energy Voice\)](#)
  - [Hydrogen Hubs: Get to Know the Encouraged Applicants | Blog \(RFF\)](#)
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## News in the States

### Alaska

- [Alaska lawmakers consider Dunleavy's carbon capture proposal \(the Center Square\)](#)
- [Alaska carbon plan: Boost state coffers without cutting oil \(The Washington Post\)](#)
- [Future of carbon management in Alaska up in the air \(Alaska's News Source\)](#)

### California

- [California Resources, partners pursuing DAC hub, with 'something to offer' for state's energy transition \(Natural Gas Intelligence\)](#)

### Colorado

- [Colorado ponders carbon storage in defunct oil and gas wells \(CBS Colorado\)](#)

### Illinois

- [A blue state asks: Is carbon capture part of climate agenda? \(E&E News\)](#)
- [Navigator's Proposed Carbon Pipeline Struggles to Gain Support in Illinois \(Inside Climate News\)](#)

### Indiana

- [Indiana group joins forces with Illinois, Michigan coalition on hydrogen hub effort \(Inside Indiana Business\)](#)
- [Landowners near carbon capture pilot program fear bill would take away property rights \(WFYI Indianapolis\)](#)

### Iowa

- [Landowners push to restrict eminent domain for CO2 pipelines \(qctimes.com\)](#)
- [Iowa ethanol plants, without pipelines, face closures, study says \(Des Moines Register\)](#)
- [Iowa House bill proposes high hurdles for CO2 pipelines \(The Gazette\)](#)

- Iowa regulators won't require safety data for CO2 pipeline (POLITICO Pro)
- Iowa environmentalists look to the Legislature to repeal eminent domain for proposed carbon pipeline (Iowa Public Radio)

### **Louisiana**

- LSU professor: Louisiana's industrial emissions are an economic carbon capture opportunity (The Advocate)

### **Minnesota**

- We must look toward innovative solutions such as carbon capture to help us meet our emission goals (MinnPost)

### **Nebraska**

- Bill would create committee to study workforce needs of nuclear, hydrogen industries in Nebraska (Lincoln Journal Star)
- Summit Carbon Solutions proposed pipeline (WJAG)

### **North Dakota**

- North Dakota Senate addresses CO2 pipeline bills; some pass, some fail (The Bismarck Tribune)

### **Pennsylvania**

- NETL Pittsburgh site to host new direct air capture center (National Energy Technology Laboratory) - see featured stories

### **South Dakota**

- End of the line for pipeline bills in South Dakota Legislature as two proposals die in Senate committee (The Dickinson Press)

### **Texas**

- Developing a Robust Hydrogen Market in Texas (Baker Institute)
- Exxon to use Honeywell carbon capture tech at hydrogen facility (Reuters)
- Texas in position to lead hydrogen energy economy, new report says (Rice University)

### **West Virginia**

- A blue hydrogen hub could be in store for West Virginia (WTAP)

### **Wyoming**

- Creating The 'Carbon Capture State' (Part 1) (wyomingtruth.org)
  - Lawmakers eye further carbon capture requirements, but Rocky Mountain Power says it'll cost ratepayers (Wyoming Public Media)
  - Government coal mandate hits free-market hurdle (thesheridanpress.com)
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## Upcoming events

### February 22

- [World Hydrogen Blue, CCS & Pyrolysis — World Hydrogen Leaders](#)

As the innovation and scope of projects around blue hydrogen and carbon capture and storage (CCS) continues, join World Hydrogen Leaders for our second edition of our virtual World Hydrogen Blue, CCS & Pyrolysis conference, where we will assess the market conditions and roadmap for everything blue and turquoise. During the event, we will look to discover technological advantages in the development of CCS technology, the role blue hydrogen will play in transforming the highly successful existing natural gas industry, policy and regulatory frameworks for the production and export of blue hydrogen, and the applications and economics of producing solid carbon through pyrolysis.

### February 23

- [Reaching Zero: Pathways to Decarbonize the US Electric System with CCS](#)

Richard Middleton, CEO of Carbon Solutions LLC, will be presenting on the Pathways to Decarbonize the US Electric System with CCS.

### February 28

- [Two Years of Justice40: How the Initiative is Delivering Solutions to the Climate Crisis](#)

Join World Resources Institute for a conversation with Matthew Tejada, Deputy Assistant Administrator for Environmental Justice at the Office of Environmental Justice and External Civil Rights, and Carla Walker, Director for Environmental Justice and Equity at WRI United States. Speakers will examine how the Justice40 Initiative is transforming the climate landscape and the environmental justice movement, discuss how benefits are reaching disadvantaged and historically marginalized communities, and explore what more can be done to fully realize an equitable clean energy economy for all. The conversation will be followed by a panel of experts working to ensure environmental justice at state and local levels and the non-profit sector.

### March 2

- [Great Plains Institute virtual event: Direct Air Capture Atlas Webinar](#)

See featured stories.

### March 6-10

- [CERAWeek S&P Global](#)

CERAWeek brings together global leaders to advance new ideas, insight and solutions to the biggest challenges facing the future of energy, the environment, and climate. CERAWeek is widely considered to be the most prestigious annual gathering of CEOs and Ministers from global energy and utilities, as well as automotive, manufacturing, policy and financial communities, along with a growing presence of tech.

**About the Regional Carbon Capture Deployment Initiative:** The Regional Carbon Capture Deployment Initiative brings together state officials with diverse industry, NGO, labor, and other

stakeholders to promote broad scale deployment of infrastructure for carbon management. The Initiative is staffed by the Great Plains Institute (GPI), a nonpartisan nonprofit working to transform the energy system to benefit the economy and environment.

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*Subscribe or request to add an event, news story, report, blog, or job posting to the update by reaching out to [Emma Thomley](#). Looking for more carbon management updates, studies, and fact sheets? Visit us at [Carbon Capture Ready](#) and read previous newsletters in our Action Alliance's [newsletter archive](#).*