



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

March 31, 2023

H.R. 1 passed in US House of Representatives

Following a lengthy amendment process and floor debate, the House of Representatives voted on Thursday to pass H.R. 1, the Lower Energy Costs Act by a margin of 225-204. The bill passed nearly on party lines, with 4 Democrats, Reps. Henry Cuellar (D-TX-28), Vicente Gonzalez (D-TX-34), Jared Golden (D-ME-02), and Marie Gluesenkamp Pérez (D-WA-03) also voting in favor. One Republican voted against the package, Rep. Brian Fitzpatrick (R-PA-01). It faces difficult prospects in the Senate, as Senate Majority Leader Chuck Schumer (D-NY) has called the package “dead on arrival,” and President Biden has made clear his intentions to veto the legislation should it hit his desk.

An amendment to the package offered by Reps. Dan Crenshaw (R-TX-02) and August Pfluger (R-TX-11), which was passed by a voice vote on Wednesday, would set a new deadline for EPA to act on State applications for primacy related to Class VI wells. Under the amendment, if EPA is unable to make a determination within 9 months of a state’s application submittal for primacy but the state has in the meantime met other conditions like implementing a program to prevent underground injection from endangering drinking water sources, those applications would be deemed approved. The amendment also includes a requirement that EPA designate a staffer from each regional office to coordinate the submittal and review of applications for Class VI wells. You can read Reps. Crenshaw and Pfluger’s full amendment [here](#).

Great Plains Institute’s Emma Thomley and Ryan Kammer featured on Carbon Capture Magazine Podcast

This week, Carbon Capture Magazine released a podcast interview with Great Plains Institute (GPI) State and Regional Policy Specialist and Ryan Kammer, Carbon Management Research Manager for GPI. In it, they discussed GPI’s newly released DAC Hubs Atlas, answering questions on a variety of carbon removal and capture topics.

“Even if we were able to aggressively decarbonize most of our economy there are still going to be some emissions that are going to be really hard to abate,” said Ryan Kammer during the

interview. “So because of that, if we’re looking towards reaching a net zero economy we’re likely going to need to remove CO₂ in other methods.”

“As this conversation around direct air capture evolves, we wanted to be able to share information about the opportunities around the U.S. for direct air capture, and help further the understanding of the energy needs of this technology,” explained Emma Thomley, discussing the importance of GPI’s Atlas. “Overall, the Atlas examines factors that could make some regions a little more suitable for developing DAC projects, such as being near existing low carbon energy resources and existing infrastructure, and the potential for geologic storage in the region.”

You can listen to CCM’s full podcast episode [here](#).

Battelle, Climeworks, Heirloom Carbon, Gulf Coast Sequestration Bid on Direct Air Capture Hub for Department of Energy

“Battelle and a team of leading technology developers have submitted a proposal to the [U.S. Department of Energy \(DOE\)](#) for funding from the Bipartisan Infrastructure Law’s Regional Direct Air Capture (DAC) Hubs program. The Project Cypress DAC Hub will advance the commercialization of Direct Air Capture and Storage (DAC+S), an innovative technology powered by renewable energy that verifiably removes carbon dioxide from the earth’s atmosphere, helping cement the United States as a global leader in DAC+S deployment and provide benefits to the state of Louisiana.”

Read the full release [here](#)

Check out GPI’s Carbon Management, Hydrogen, and Procurement Legislative Updates

Legislative sessions are underway in most states across the country and carbon management, hydrogen, and procurement-related measures and bills of interest are under consideration. Every other Friday we send out a legislative digest with a short summary of the trends we’re seeing and the bills that are moving in states. If you didn’t receive last week’s digest, please check your spam filter. For real-time updates on what bills are moving, check the [legislative tracker](#).

News Roundup

- [The great 'green hydrogen' battle | Canary Media](#)
- [NETL-Managed Projects Advance New Direct Air Capture Tests | netl.doe.gov](#)
- [This Bacteria Can Turn CO₂ Into Biodegradable Plastic \(thedailybeast.com\)](#)
- [United invests \\$15M in carbon capture-sustainable fuel effort \(axios.com\)](#)
- [GE Research developing tech in Niskayuna to take CO₂ out of air \(timesunion.com\)](#)

- [GE and Svante develop carbon capture technology for natural gas-fired plants \(powerengineeringint.com\)](#)
 - [A Different Kind of Pipeline Project Scrambles Midwest Politics - The New York Times \(nytimes.com\)](#)
 - [Landmark carbon capture project onboard a Stena Bulk tanker moves ahead - Splash247](#)
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Global News

- [Carbfix Launches Carbon Capture Plant In Iceland \(carbonherald.com\)](#)
 - [COP28 President says climate fight is lost without major CCS investment - Power Engineering International](#)
 - [New Direct Air Capture Plant That Runs On Heat To Be Built In The UK \(carbonherald.com\)](#)
 - [Wood completed carbon capture studies for over half of global facilities \(worldoil.com\)](#)
 - [Carbon capture: what is CCUS technology - how does it work? | NationalWorld](#)
 - [Britain's Drax pauses \\$2.5 bln biomass carbon capture plans | Nasdaq](#)
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New podcasts, reports, statements & blogs

- [Better Carbon Sequestration With AI - IEEE Spectrum](#)
 - [Potential hydrogen source could power trucks while reducing greenhouse gases | Great Lakes Echo](#)
 - [Progress on Carbon Capture, Utilization, and Storage Is Good News | The National Interest](#)
 - [Rex reports progress with CCS project, plans capacity expansion | EthanolProducer.com](#)
 - [Carbon Capture Permit Backlog Threatens Climate Progress | RealClearEnergy](#)
 - [The outlook for U.S. hydrogen hubs: Who's applying and what they could achieve – Clean Air Task Force \(catf.us\)](#)
 - [Are Pipelines Safer Than Rail or Truck? \(heartlandgreenway.com\)](#)
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News in the States

California

- [California Needs Carbon Capture to Meet Net-Zero Carbon Goals | Opinion | fairfieldsuntimes.com](#)
- [Kern planning director tapped for carbon-based task force | News | bakersfield.com](#)
- [Climate Fix: California Looks to Remove Massive Amounts of Carbon from Atmosphere to Meet Climate Goals | KQED](#)
- [New California bill could advance carbon removal while holding polluters accountable | The Hill](#)

- [Climate Forward | The UCSB Current](#)
- [Federal, local officials tout carbon capture in Kern County –with mixed reaction \(kvpr.org\)](#)

Colorado

- [Colorado can eliminate emissions from legacy oil production facilities and significantly improve air quality - Oil & Gas 360 \(oilandgas360.com\)](#)
- [Carbon America introduces project to community – Akron News-Reporter \(akronnewsreporter.com\)](#)
- [Some Peoria council members call for a moratorium on development of carbon capture pipeline on the South Side | WCBU Peoria](#)
- [Peoria County Board considers options for proposed Wolf/ADM carbon dioxide pipeline | WCBU Peoria](#)
- [Decatur City Council approves ADM carbon capture sequestration, Tillamook plant redevelopment plan | WCIA.com](#)
- [Safety training will accompany carbon pipeline, representatives say | News | norfolkdailynews.com](#)

Indiana

- [Bill advancing Indiana's carbon sequestration projects moves forward – Indianapolis Business Journal \(ibj.com\)](#)
- [Despite pushback, bill advancing Indiana's carbon sequestration projects moves forward - Indiana Capital Chronicle](#)
- [Landowners find compromise in bill on carbon storage pilot program, safety concerns remain | news - Indiana Public Media](#)

Iowa

- [Emmet County, Board of Supervisors sued by Summit Carbon Solutions over new ordinance | KMEG \(siouxlandnews.com\)](#)
- [Iowa Bill To Restrict Eminent Domain For CO2 Pipelines Will Not Be Passed \(carbonherald.com\)](#)
- [Legislators weigh-in on carbon capture pipelines - Pen City Current](#)
- [Lillibridge: Carbon capture will help Iowa lead on growing its own energy | Opinion | nwestiowa.com](#)
- ['I'm going to fight for my ground': Iowa residents express concerns for proposed co2 pipeline \(ketv.com\)](#)
- [Dickinson Co. Supervisors Hear Lengthy Debate Over Carbon Capture Pipelines | Explore Okoboji](#)
- [Regulator: CO2 pipelines safe, but have risks | The Gazette](#)

Louisiana

- [\\$3.1 billion sustainable aviation fuel plant eyes St. James | Business | theadvocate.com](#)
- [Milestone Carbon To Evaluate 46,000 Acres For Carbon Capture In Louisiana \(carbonherald.com\)](#)
- [Tax incentives start rush for carbon capture projects - Louisiana Illuminator \(lailluminator.com\)](#)

Minnesota

- Biden to visit Twin Cities manufacturing plant on Monday – Twin Cities
- Radisson Blu Mall Installs CarbinX Carbon Capture Unit - Carbon Herald
- Minn. startup uses plants to trap CO2 emissions | Energy News Network

Montana

- Multi-billion dollar hydrogen project proposed in Montana (ktvq.com)

North Dakota

- Port: Maybe the Summit carbon pipeline isn't as controversial as it seems? (inforum.com)
- North Dakota Landowners Sign Voluntary Easement Agreements with Summit Carbon Solutions Totaling 70% of the Pipeline Route - Summit Carbon Solutions
- Burleigh County weighs requiring permits for CO2 pipelines | Ap | thederrick.com
- Burleigh County, North Dakota to require CO2 pipeline permits | Fox News
- Farmer concerns, support surface at Summit pipeline hearing - InForum | Fargo, Moorhead and West Fargo news, weather and sports (thedickinsonpress.com)

Ohio

- Class VI injection wells could be future of oil and gas industry - Farm and Dairy

Pennsylvania

- NETL Director Anderson says addressing climate change requires decarbonization of industrial sector - Pennsylvania Business Report (pennbizreport.com)
- Hydrogen hub, carbon projects face internal, external hurdles in effort to land funding from Bipartisan Infrastructure Law - Pittsburgh Business Times (bizjournals.com)

Texas

- Southeast Texas 'perfect place' for carbon capture (beaumontenterprise.com)
- Chevron Most Active While Exxon Eyes Carbon Storage in Gulf of Mexico Auction (gcaptain.com)
- Texas Port partners with UT scientists to sto | EurekAlert!
- Legislature Eyes Carbon Capture, Storage Proposals to Drive Investment in Growing Industry | The Texan
- HydrogenPro To Build 500MW Hydrogen Facility In Texas (carbonherald.com)
- Department of Energy grant aims to unlock future carbon management research, education at Texas State University | San Marcos Record

Virginia

- Virginia governor signs bills to support SMR development : Nuclear Policies - World Nuclear News (world-nuclear-news.org)

Wyoming

- Microsoft inks deal with Wyoming carbon removal project (trib.com)
- Rep. Don Burkart: Hydrogen, Carbon Capture Will Help Wyoming Stay A Leader In Energy - Cowboy State Daily
- SER provides new certificate programs (uwbrandingiron.com)

Upcoming events

May 9

- [2023 D.C. Forum on CCS - Global CCS Institute](#)
The Global CCS Institute will hold its 11th Annual D.C. Forum on Carbon Capture and Storage in Washington D.C. and online. The D.C. Forum is an opportunity for policymakers, industry leaders, NGOs, journalists, and financial institutions, to gather and discuss the rise of CCS, as well as the urgency of increasing support for the enabling conditions needed to take it to scale.

April 25 – 27

- [Carbon, Capture, Utilization, and Storage \(CCUS\) 2023](#)
This in-person event will unite AAPG, SPE, and SEG and highlight current CCUS work and address related challenges, including: Subsurface Geologic Storage, CO₂ Enhanced Hydrocarbon Recovery, Reservoir Monitoring and Risk Assessment, Case Studies, Industry Applications, Economics, Incentives, and Policy Infrastructure, Non-technical considerations

June 6

- [Direct Air Capture Summit, hosted by Climeworks](#)
Climeworks' Direct Air Capture Summit is a one-of-a-kind platform featuring business, technology, scientists, and policy experts. Key players collaborating and discussing high-quality carbon removal solutions help drive the scale-up the industry needs. The fourth edition is will focus on advancing high-quality carbon removal solutions that are net-negative, additional, verifiable, and permanent.

June 12-14

- [Carbon Capture & Storage Summit - 2023 Fuel Ethanol Workshop and Expo](#)
Capturing and storing carbon dioxide in underground wells has the potential to become the most consequential technological deployment in the history of the broader biofuels industry. Deploying effective carbon capture and storage at biofuels plants will cement ethanol and biodiesel as the lowest carbon liquid fuels commercially available in the marketplace. The Carbon Capture & Storage Summit will offer attendees a comprehensive look at the economics of carbon capture and storage, the infrastructure required to make it possible and the financial and marketplace impacts to participating producers.

June 19 - 21

- [Industrial Decarbonization: Manufacturing a Green Future \(techconnectworld.com\)](#)
Topics and application areas include Low GHG feedstocks and chemical processes, Hydrogen production processes, Low GHG heat and electricity sources, Electrical energy storage and application to industrial processes, Carbon capture and storage from industrial point sources, including bioenergy with CCS (BECCS), Case studies: Iron and steel, Chemicals & plastics, Cement, Aluminum, and Refining.

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. 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](#).

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](#).