



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

January 20, 2023

EPA Announces Availability of \$50 Million to Support States and Tribes Developing Programs for Carbon Sequestration and Groundwater Protection

This week the U.S. Environmental Protection Agency (EPA) **announced** \$50 million in grant funding made available by the Bipartisan Infrastructure Law to assist states, Tribes, and communities in developing and implementing programs for permitting and monitoring Class VI injection wells, which are required for the dedicated geologic storage of CO₂. Along with the historic enhancements to the federal Section 45Q tax credit included as part of the Inflation Reduction Act, effective implementation of this modest, but vital, permitting resource could be transformative to the anticipated scale-up of carbon management deployment because of increased federal policy support enacted in the 117th Congress.

EPA supports efforts by states, Tribes, and territories to implement existing primacy programs and seek primary enforcement and permitting responsibility (primacy) for Class VI wells. EPA is inviting states, Tribes, and territories to submit letters of intent to indicate their interest in this new funding, and interested parties have until March 20, 2023, to submit their letters. After receiving submissions, EPA will determine funding allocations and award the full \$50 million in a one-time distribution. See the Class VI state and Tribal LOI Request Letters and the Class VI LOI Response Template below.

- [State LOI Request Letter \(pdf\)](#) (517.49 KB)
- [Tribal LOI Request Letter \(pdf\)](#) (117.73 KB)
- [Class VI LOI Response Template \(pdf\)](#) (53.33 KB)

Applicants to the new Class VI UIC grant program must demonstrate how environmental justice and equity considerations will be incorporated into their Class VI UIC primacy programs. According to EPA, this may include identifying communities with potential environmental justice concerns, enhancing public involvement, appropriately scoped environmental justice assessments, enhancing transparency throughout the permitting process and minimizing adverse effects associated with permitting actions.

View more information on the grant program: [here](#)

ICYMI: DOE NETL Releases Notice of Intent to issue Funding Opportunity Announcement

The Department of Energy's National Energy Technology Laboratory released a Notice of Intent (NOI) in mid-December for its Carbon Utilization Procurement Grants Program. The Notice of Intent is for informational purposes only and provides an overview of DOE's plan to provide grants for the procurement and use of commercial and industrial products that are derived from anthropogenic carbon oxides (carbon dioxide and carbon monoxide).

The NOI can be accessed at this link: [FedConnect: Opportunity Summary](#)

DOE plans to issue the funding opportunity announcement (FOA) in DE-FOA-0002829 in early 2023. If this funding opportunity is released, demonstration grants will require a minimum of 50% non-federal cost share and a community benefit plan. Prior to accepting a full application, DOE will also require applicants to submit concept papers, allowing DOE to determine if the applicant will be able to meet certain application requirements.

West Virginia's Senate and House Pass Bill Allowing DNR to Lease State Land for Carbon Storage

The West Virginia Senate unanimously passed two bills last week – and the House quickly followed – paving the way for geologic storage on public land in the state.

[SB 161](#) would allow the state's Department of Natural Resources to lease or sell the property within its control, with approval from the Department of Commerce. [SB 162](#) would allow the state's Department of Natural Resources to "lease state-owned pore spaces underlying state forests, natural and scenic areas, wildlife management areas, and other lands under the jurisdiction and control of the director" for carbon storage.

Prairie Research Institute Releases Report on Illinois Carbon Management Opportunities and Challenges

This January, the Prairie Research Institute's report to the Illinois Governor and Illinois General Assembly – [Carbon Capture, Utilization, and Storage in Illinois](#) – was made public. The report was requested in [Public Act 102-0341](#) and describes key carbon management opportunities, challenges, and best practices in the state. Tackling a broad range of carbon management considerations including capture and utilization, transport, storage, permitting under UIC Class VI, the report suggests options for policymakers looking to overcome the state's challenges.

The Act required the Prairie Research Institute to lead a CCUS (carbon capture, utilization, and storage) study group which recommended, among other items, that the state:

- Consider CCUS as playing an important role in the state's decarbonization and have it complement other emissions-reductions solutions;
- Establish an interagency planning and oversight committee on CCUS;

- Require CCUS projects and policies to prioritize environmental justice and exceed engagement requirements; and
- Deploy CCUS in ways that support new economic opportunities

Also, addressing stakeholder questions and concerns, the report summarizes the results of 13 virtual stakeholder sessions. sessions covered permitting, transportation and safety, property rights and more, with stakeholders giving a diverse range of opinions.

Call for Abstracts - Industrial Decarbonization: Manufacturing a Green Future, 2023 TechConnect World Innovation Conference & Expo

For over 20 years the TechConnect World Innovation Conference and Expo has connected top applied research and early-stage innovations from universities, labs, and startups with industry end-users and prospectors. This new symposium for the 2023 TechConnect meeting will consider applied research and early-stage innovations from universities, labs, and startups in the quest to decarbonize the economy through sustainable technologies.

The 2023 Topics & Application Areas are:

- 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

The application deadline for oral abstracts is today, **January 20**, and the deadline for late abstracts (poster only) is **March 31**. You can view the symposium website [here](#), and view the abstract submission portal and instructions [here](#).

News Roundup

- [Low-Carbon Investments and Spending on Hydrogen and CCUS Expected To Surge as Inflation Weakens](#)
- [Climate Change Latest News on Gas and LNG: January 15, 2023 - Bloomberg](#)
- [US Road to CCS Boom Hits Speed Bumps | Energy Intelligence](#)
- [POLITICO Pro | Article | Hydrogen in pipelines: A 'dangerous experiment?'](#)
- [POLITICO Pro | Article | Energy Department moves head with community clean energy programs](#)

Global News

- [Global Carbon Removal Efforts Are Off Track for Meeting Climate Goals - Scientific American](#)
- [Study finds 'significant potential' for carbon capture storage in Northeast B.C. - Alaska Highway News](#)

- FEED services provider wanted for Dutch CO2 storage project - Offshore Energy (offshore-energy.biz)
 - MISC, Mitsui and SHI to collaborate on CCS value chain - Offshore Energy (offshore-energy.biz)
 - Equinor backs Beccs in joint Nordic initiative (pemedianetwork.com)
 - Carbon-capture company comes close but can't close contracts (s1trib.com)
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New podcasts, reports, statements & blogs

- Resources — The State of Carbon Dioxide Removal (stateofcdr.org)
 - Scientists Claim Carbon Capture Is Viable & Fossil Fuel Producers Should Bear The Costs - CleanTechnica
 - Catalyst with Shayle Kann: Ammonia: the beer of decarbonization on Apple Podcasts
 - Capture, Store, Repeat: Innovative Ways to Approach CO2 Storage on Apple Podcasts
 - CCUS-The Pragmatist's Solution To The Decarbonization Goal | by CarbonKerma | Jan, 2023 | Medium
 - Carbon capture and storage | Townsville Bulletin
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News in the States

Alaska

- SitNews: Governor Dunleavy Outlines Carbon Management Bill Package

Illinois

- Carbon Capture, Utilization, and Storage in Illinois | IDEALS

Iowa

- Pipelines take to Iowa courts to gain access for surveys (wfcourier.com)
- Carbon pipelines, crucial to ethanol's survival, alarm landowners, environmentalists (qctimes.com)
- Guest Opinion: Does the benefit of pipelines exceed the cost to us taxpayers? | Waverly Newspapers | communitynewspapergroup.com
- Do you think that any carbon capture pipelines should be built in Northwest Iowa? (siouxcityjournal.com)
- Summit remains upbeat on CO2 pipeline | News | nwestiowa.com
- CO2 pipeline closer to reality as Summit Carbon Solutions briefs Pottawattamie County board (nonpareilonline.com)
- Proposed pipeline's impact on North Iowa | National News | kpvi.com
- Floyd County to hire legal representation to deal with carbon pipelines – KCHA News - (upjobsnews.com)

Kentucky

- [Startup Tech Companies Awarded Nearly \\$900,000 in Grants to Continue Growth in Kentucky - 95.3 WIKI \(953wiki.com\)](#)

Louisiana

- [Letters: Carbon capture and storage deserves public support | Letters | nola.com](#)
- [A Window into Louisiana's Continued Embrace of the Fossil Fuel Industry - Resilience](#)
- [Company with Louisiana project completes first CO2 direct-air capture \(1012industryreport.com\)](#)
- [CF Industries Signs MOU with JERA for Supply of up to 500,000 Metric Tonnes Per Year of Clean Ammonia | Business Wire](#)

Massachusetts

- [Boston Startup Raises \\$40 Million to Develop Low-Carbon Cement - Bloomberg](#)

Michigan

- [Michigan Tech receives \\$2.5M ARPA-E MINER award for carbon storage and extraction of critical minerals from mine tailings - Green Car Congress](#)

Minnesota

- [Environmental groups invite west central Minnesotans to Carbon Pipelines 101 meeting Jan. 23 - West Central Tribune | News, weather, sports from Willmar Minnesota \(wctrib.com\)](#)
- [Upon further review: Proposed pipeline to go through EIS | News | fergusfallsjournal.com](#)

North Dakota

- [Sen. Jeff Magrum files 8 bills related to Summit Carbon Solutions pipeline - InForum | Fargo, Moorhead and West Fargo news, weather and sports](#)

South Dakota

- [Navigator jumps ahead of Summit in South Dakota carbon capture - Mitchell Republic | News, weather, sports from Mitchell South Dakota](#)

West Virginia

- [W.Va. House of Delegates Passes DNR Carbon Capture Bills | News, Sports, Jobs - The Intelligencer](#)
- [Two bills may pave way for hydrogen hub | News, Sports, Jobs - The Intermountain](#)
- [House Judiciary OKs Senate bill to allow DNR to lease underground pore spaces for carbon sequestration - Dominion Post](#)

Wyoming

- [Legislature considers a bill to prolong Wyoming's coal industry, despite a national downturn | Wyoming Public Media](#)
 - [Editorial board: The market is speaking loud and clear on coal. Will Wyoming listen? \(trib.com\)](#)
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Upcoming events

January 24

- [NETL's Cost of Capturing CO2 from Industrial Sources and Industrial Carbon Capture Retrofit Database Webinar](#)
The event will cover The National Energy Technology Laboratory's (NETL) [report](#) released this September that examines nine different industrial facilities to estimate the cost of capturing CO₂.
- [CarbonCapture: Project Bison and Scaling DAC in the U.S. Tickets, Tue, Jan 24, 2023 at 12:00 PM | Eventbrite](#)
OpenAir is excited to present This Is CDR, an online event series that explores the wide range of carbon dioxide removal (CDR) solutions currently being researched, developed, and deployed, and discusses them in the context of CDR policies OpenAir seeks to formulate and advance at every level of government in the U.S., as well as in national and subnational jurisdictions globally. This week we are very excited to welcome CarbonCapture CEO Adrian Corless who will update us on Project Bison, the company's ambitious 5Mt planned deployment in Wyoming, and discuss the company's plans to scale beyond that in the U.S. and globally.

February 6

- [The National Tribal Energy Roundtable, Webinar #4: Hydrogen, Ammonia, and Clean Fuels of the Future](#)
In Indian Country, some lack the basic human essentials like electricity or running water and many lack clean and freely accessible water. So, as we discuss clean fuels and our clean fuel future, it is a bit bittersweet. No matter our situation, our Nation and the World are ready to move in the direction of developing and using new sources of clean and cleaner fuels for power generation, transportation, and for uses we have not even thought of as of yet. Some of those fuels, like Hydrogen, Ammonia, and Methanol exist today and have existed within our fuels system since the beginning, yet are getting new attention due to their potential for less emissions or even zero emissions. We aim to discuss these and other issues relating to clean and cleaner fuels and how their development and use will impact Indian Country.

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

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](#)