



## REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

# UPDATE

May 13, 2022

### **Lapis Energy Acquires Carbon Pore Space Rights in Louisiana**

This week Lapis Energy announced the completion of its lease to acquire pore space for carbon storage of over 14,000 acres near New Orleans Louisiana, stating the area's pore space has the potential to store more than 500 million tons of industrial carbon dioxide. Lapis has begun technical studies to support a Class VI permit for the area and plans to start injecting CO<sub>2</sub> by 2025.

- [Lapis Energy Acquires Key Pore Space Rights in the Baton Rouge Corridor - Cresta Fund Management \(crestafunds.com\)](#)
- [Lapis Energy acquires key pore space rights in Louisiana – Energy Northern Perspective](#)

### **Navigator CO<sub>2</sub> Ventures Announces Carbon Management Agreement with Iowa Biorefineries**

Navigator CO<sub>2</sub> Ventures LLC announced its agreement with Big River Resources, LLC and Big River United Energy, LLC on Tuesday to provide carbon capture, transport, use, and storage services on Navigator's Heartland Greenway system for three ethanol biorefineries.

The project is expected to start operations at the beginning of 2025.

Associated News Coverage:

- [Navigator CO<sub>2</sub> sign deal to capture and storage carbon from Iowa biorefineries | News | gasworld](#)
- [Navigator CO<sub>2</sub>, Big River Resources, and Big River United Energy Execute Letter of Intent for the Capture, Transportation, Storage, and Value Optimization of up to 1,000,000 Metric Tons of CO<sub>2</sub> per year, for Twenty \(20\) Years \(prnewswire.com\)](#)
- [Navigator CO<sub>2</sub> Ventures teams with Big River Resources on Heartland Greenway : Biofuels Digest](#)
- [Navigator CO<sub>2</sub>, Big River announce CCUS agreement | EthanolProducer.com](#)

### **Carbon America Announces Two Colorado Carbon Capture Projects**

This week, Carbon America [announced](#) two agreements to develop carbon management projects at Colorado ethanol production facilities. The facilities will capture and store 95 percent of their carbon dioxide emissions per year from the fermentation process.

Carbon America will finance, build, own and operate the carbon capture systems at the ethanol plants in Sterling and Yuma, Colorado, and ensure secure geologic sequestration nearly one mile underground in northeastern Colorado. The projects are the first two commercial carbon capture projects in the state of Colorado.

Associated News Coverage:

- [Colorado pioneering carbon capture project at ethanol plants \(coloradosun.com\)](#)
- [Carbon America to Construct, Own and Operate the First Two Commercial Carbon Capture and Sequestration Projects in Colorado \(yahoo.com\)](#)

## ICYMI: FECM Released Report on Underground Hydrogen Storage

The U.S. Department of Energy's Office of Fossil Energy and Carbon Management recently released the report, the [Subsurface Hydrogen and Natural Gas Storage: State of Knowledge and Research Recommendations](#), to inform the public about the safe and effective deployment of industrial-scale underground hydrogen storage in the US.

- Fundamental research in the areas of subsurface flow behavior, biogeochemical processes, and materials performance must be conducted to advance the development of UHS technology.
- Pilot demonstration tests will be required in the next three to five years to significantly accelerate UHS technology understanding and confidence among operators, regulators, and industry stakeholders.

Associated News Coverage:

- [FECM'S New Report Details What Would be Needed to Safely and Effectively Deploy Large-Scale Underground Hydrogen Storage | Department of Energy](#)

## DOE Requesting Applications for Hydrogen and Fuel Cell Project Reviewers

The [Hydrogen and Fuel Cell Technologies Office \(HFTO\)](#), in the Department of Energy's Office of Energy Efficiency and Renewable Energy, is looking for a diverse pool of subject matter experts to review federal funding applications for clean hydrogen programs.

Learn more here: [Interested in Becoming a Hydrogen and Fuel Cells Project Reviewer? | Department of Energy](#)

## White House Releases Permitting Action Plan on Federal Permitting and Environmental Reviews

On Wednesday, May 11, the White House released a [Permitting Action Plan](#) to “strengthen and accelerate Federal permitting and environmental reviews.” The Action Plan builds on federal authorities granted in the bipartisan infrastructure law, including Section 11301, “Codification of One Federal Decision,” which requires the permitting review process for covered projects to be limited to two years, among other mechanisms provided to “enhance efficiency, accountability, and predictability” to enable the effective rollout of the funding provided by the bipartisan infrastructure law. Additionally, the bipartisan infrastructure law created a permitting council, which brings together federal agencies to improve the environmental review process.

The Permitting Action Plan outlines several actions the Administration will take related to implementing various provisions in the infrastructure law aimed at improving the federal permitting process, including:

- Within 90 days of the issuance of the Action Plan, the Office of Management and Budget (OMB), in consultation with the Council on Environmental Quality (CEQ), will provide guidance to agencies on carrying out the Action Plan,
- The Permitting Council will provide quarterly reports to Congress assessing agency compliance with FAST-41,
- Within 90 days of the issuance of the Action Plan, agencies and cross-agency teams will report to the Permitting Council opportunities to prepare new programmatic approaches to permitting to address common issues, eliminate duplication, and cite and design projects that is “smart from the start”,
- Lead agencies are directed to establish and post schedules on the publicly accessible [Federal Permitting Dashboard](#) project permitting schedules and other information for certain large-scale projects,
- Consistent with the National Environmental Policy Act and other applicable requirements, agencies will review policies, procedures and staffing to ensure that the public has a meaningful opportunity to participate in decision-making, and,
- Within 90 days of the issuance of the Action Plan, agencies with environmental review and permitting responsibilities should complete initial plans for key strategies to implement the Action Plan.

Associated News Coverage:

- [White House issues 'action plan' to speed up energy reviews - E&E News \(eenews.net\)](#)
- [White House Rolls Out 'Action Plan' to Speed Project Permitting | 2022-05-11 | Engineering News-Record \(enr.com\)](#)

## State Carbon Management Legislative Highlights

*Introduced*

- **California:** [SB 1399](#), *Carbon capture and storage pilot program: industrial facilities,*
- **Maryland:** [HB 1366](#), *Zero-Emission Energy Resources and Carbon Capture, Use, and Sequestration – Renewable Energy Portfolio Standard and Study,*
- **Pennsylvania:** [HR 183](#), *A Resolution urging the Biden Administration and the Congress of the United States to designate this Commonwealth as a hydrogen hub*

*First Committee*

- **California:** [SB 905](#), *Decarbonized Cement and Geologic Carbon Sequestration Demonstration Act. Geological Carbon Sequestration Amendments*,
- **Minnesota:** [SF 3661](#), *State policy supporting the deployment of carbon capture and sequestration technologies establishment*

#### *First Chamber*

- **Iowa:** [HF 2565](#), *A bill for an act relating to and making appropriations... (requires the Iowa Utilities Board not to set a public hearing with carbon sequestration pipeline companies requesting eminent domain before February 1st, 2023)*

#### *Second Chamber*

- **Colorado:** [SB 22-193](#), *Air Quality Improvement Investments*

#### *Enacted*

- **Alabama:** [SB 36](#), *Oil and Gas Board, underground gas storage facilities, regulation, gas further defined to include abandonment of underground storage facilities, performance bonds, fees by board, Secs. 9-17-150, 9-17-151 am'd.*,
- **Arizona:** [SB 1396](#), *Hydrogen study committee*,
- **Indiana:** [HB 1209](#), *Carbon sequestration projects*,
- **Mississippi:** [HB 1218](#), *Carbon dioxide geologic sequestration; revise laws regarding*,
- **Nebraska:** [LB 1099](#), *Create the Nebraska Hydrogen Hub Industry Work Group*,
- **Ohio:** [HB 175](#), *Deregulate certain ephemeral water features (this bill includes class VI injection well process recommendations)*
- **South Dakota:** [HB 1120](#), *Include carbon dioxide and carbon dioxide capture companies in certain provisions regarding pipeline taxation*,
- **Utah:** [HB 244](#), *Geological Carbon Sequestration Amendments*,
- **West Virginia:** [HB 4491](#), *To establish requirements for carbon dioxide sequestration*,
- **Wyoming:** [SF 47](#), *Carbon storage and sequestration-liability*.

Read RDI's [weekly legislative update](#) to see all tracked bills related to carbon management.

## Registration Closing Soon for GPI's Upcoming Conference

Registration closes on May 17 for [Turning Federal Investment into Action: Scaling Carbon Management Technologies and Infrastructure](#) an RDI in-person event on May 25 and 26 2022 at the historic Brown Hotel in downtown Louisville, Kentucky.

**We invite you to register for *Turning Investment into Action: Scaling Carbon Management Technologies* [here](#).**

#### **Keynote Remarks**

- Kenya Stump, Executive Director, Kentucky Office of Energy Policy

#### **Carbon Management 101**

- Carbon Management and Federal Policy Overview

- Patrice Lahlum, Vice President, Carbon Management (Interim), Great Plains Institute
- State Policy Roundup
  - Matt Fry, Senior Policy Manager, Carbon Management, Great Plains Institute

### **Spotlight on Carbon Management Projects Under Development**

- *Moderator:* Matt Bright, Carbon Capture Policy Manager, Clean Air Task Force
- Cindy Crane, CEO, Enchant Energy
- Karen Matusic, Senior Director of External Affairs: Appalachia/Tri-state Region, Equinor
- Dr. Rodney Andrews, Director of the Center for Applied Energy Research and Professor of Chemical Engineering, University of Kentucky
- Matt Hagen, Government Relations Manager, Senior Business Development Manager for Global CO2 Solutions, Air Products

### **Class VI Permitting of Geologic Storage**

- *Moderator:* Patrice Lahlum, Vice President, Carbon Management (Interim), Great Plains Institute
- Bill Bates, Branch Chief, United States Environmental Protection Agency
- Jennifer Zygmunt, Administrator, Water Quality Division, Wyoming Department of Environmental Quality
- Jessica Moore, Director and State Geologist, West Virginia Geological and Economic Survey

### **Managing CO2 Storage Regulation Across State Boundaries**

- Kris Koski, Professional Land Management (PLM) Director and Associate Lecturer, University of Wyoming School of Energy Resources

### **Ensuring Pipeline Safety**

- *Moderator:* Sarah Forbes, Director, Carbon Capture Utilization and Sequestration, White House Council on Environmental Quality
- Linda Daugherty, Deputy Associate Administrator for Field Operations, Pipeline and Hazardous Materials Safety Administration
- Ryan Edwards, Senior Carbon Management Policy Advisor, Oxy Low Carbon Ventures

### **Clarifying Federal Pore Space Ownership and Regulation**

- *Moderator:* Dr. Steven M Carpenter, Managing Partner, Carpenter Global, LLC
- Michael Hogan, Program Lead for Pipelines and Road and Rights-of-Way, U.S. Bureau of Land Management (Invited)
- Mark Chandler, Realty Specialist, U.S. Forest Service (Invited)
- Tracy Evans, Chief Executive Officer, CapturePoint LLC

### **Developing and Permitting Offshore Storage**

- *Moderator:* Dr. Steven M Carpenter, Managing Partner, Carpenter Global, LLC
- Michael Celata, Gulf Coast Director, Bureau of Ocean Energy Management, U.S. Department of the Interior
- Jason Lanclos, Director, State Energy Office, Louisiana Department of Natural Resources

### **Fostering Environmental Justice and Facilitating Community Engagement**

- *Moderator:* Dr. Meron Tesfaye, Senior Policy Analyst, Bipartisan Policy Center
- Individual presentation by Jon Kehmeier, Vice President, Scientific and Technical Services, SWCA Environmental Consultants
- Panel discussion with:
  - Dr. Simone H. Stewart, Industrial Policy Specialist, Climate and Energy Policy, National Wildlife Federation

- Tom Dower, Vice President for Public Policy, LanzaTech
- Dr. Holly Buck, Assistant Professor, Environment & Sustainability, University at Buffalo

### **Carbon Management at Scale: Building Regional Carbon and Hydrogen Hubs**

- *Moderator:* Kristin Carter, Assistant State Geologist, Economic Geology Division, Pennsylvania Geological Survey
- Bob Schrecengost, Acting Division Director, Division of Hydrogen with Carbon Management, Office of Fossil Energy and Carbon Management, United States Department of Energy
- Glen Murrell, Director, Wyoming Energy Authority
- Becky Keogh, Cabinet Secretary, Arkansas Department of Energy and Environment

## **Upcoming I<sup>3</sup> Event! Hubs on the Horizon: Scaling Carbon and Hydrogen Decarbonization Solutions**

Hubs on the Horizon is an in-person event hosted by the [Industrial Innovation Initiative](#) (i3) and will convene stakeholders from around the country to discuss the latest developments and announcements from the U.S. Department of Energy regarding clean hydrogen and carbon capture hubs funding and programs. The event will showcase and socialize efforts across the U.S. to establish hydrogen and carbon management hubs and serve as an opportunity to gain insights from key industrial, labor, and environmental perspectives.

The event will offer presentations and interactive panel dialogues addressing key themes and priorities for hub deployment, including:

- Current guidance from the U.S. Department of Energy around hub planning and implementation;
- Insights from newly formed multistate collaborations actively pursuing hydrogen hub funding;
- Increasing state, labor, and private sector ambition to enable regional hub development; and
- Key policies that can prime states to attract carbon and hydrogen hub projects.

**We invite you to join the Initiative in Washington, D.C. on June 8, by registering for the event [here](#).**

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## **News Roundup**

- [FACT SHEET: Biden-Harris Administration Releases Permitting Action Plan to Accelerate and Deliver Infrastructure Projects On Time, On Task, and On Budget | The White House](#)
- [Whitehouse seeks compromise on carbon border fee - E&E News \(eenews.net\)](#)
- [Summit Carbon Solutions equity campaign for carbon capture project reaches \\$1 billion in commitments - West Central Tribune | News, weather, sports from Willmar Minnesota \(wctrib.com\)](#)
- [What is carbon capture? Eric Toone, investor at Gates' firm, explains \(cnbc.com\)](#)
- [Why the EPA Might Make New Gas Plants Catch Carbon - Scientific American](#)

- [Multinational cement players team to back six carbon management consortia – Concrete Products](#)
  - [Could CCUS play into new emission rules for gas-fired plants? \(power-eng.com\)](#)
  - [The secrets to passing climate legislation — even in red states | Grist](#)
  - [Can Congress still pass some of Biden's climate ideas this year? - Los Angeles Times \(latimes.com\)](#)
  - [Aqualung Carbon Capture AS successfully completes \\$10m equity round with strategic investors \(yahoo.com\)](#)
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## Global News

- [Japan plans first carbon capture and storage project - Nikkei Asia](#)
  - [UK startup raises \\$150 million in largest round for carbon capture \(worldoil.com\)](#)
  - [Britain awards Equinor, BP carbon storage licences in Southern North Sea | Reuters](#)
  - [Drax to pilot more pioneering new carbon capture technology | Biomassmagazine.com](#)
  - [Calgary energy company eyeing Pincher Creek for potential carbon capture hub | Globalnews.ca](#)
  - [Record number of polluters set CO2 emissions targets - BBC News](#)
  - [The promise of African clean hydrogen exports: Potentials and pitfalls \(brookings.edu\)](#)
  - [China to step up financial support for clean, efficient use of coal - Global Times](#)
  - [Chevron, Pertamina to explore lower carbon opportunities in Indonesia | Reuters](#)
  - [Readout of Bilateral Meeting between Secretary Granholm and Minister of Natural Resources Canada Jonathan Wilkinson | Department of Energy](#)
  - [Carbon Clean raises US\\$150m in record carbon capture funding round | World Cement](#)
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## New podcasts, reports, statements & blogs

- [Is carbon capture and storage shipping's next big thing? | TradeWinds \(tradewindsnews.com\)](#)
- [Is CCUS the path to net-zero? - BIC Magazine](#)
- [Carbon capture an important strategy for cement sector - The Hill Times](#)
- [Human and planetary health implications of negative emissions technologies | Nature Communications](#)
- [IAEA to develop roadmap for commercial hydrogen deployment - Nuclear Engineering International \(neimagazine.com\)](#)
- [Could CCUS play into new emission rules for gas-fired plants? \(power-eng.com\)](#)
- [TPG's Climate Fund Backs Ambitious US Carbon-Capture Project | Financial Post](#)
- [Clean energy can light a new path forward for former coal communities | The Hill](#)
- [Biden rollback of permitting reform is making his own energy goals impossible | Washington Examiner](#)
- [CP Daily: Wednesday May 11, 2022 « Carbon Pulse \(carbon-pulse.com\)](#)
- [What does the current global energy crisis mean for energy investment? | LinkedIn](#)

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## News in the States

### Alabama

- [National Carbon Capture Center in Alabama supports successful commercialization of CarbonBuilt low-carbon concrete technology - Alabama NewsCenter](#)

### Arizona

- [Arizona energy providers, state universities join forces to pursue a carbon-neutral economy | ASU News](#)

### Arkansas

- [Lapis Energy CEO Discusses New Arkansas CCS Project | Hart Energy](#)

### California

- [POLITICO Pro | Article | Calif. rejects plan to be carbon neutral by 2035](#)
- [1 Message! \(naturalgasintel.com\)](#)

### Colorado

- [Bennet bill would create endowment to aid Hayden, Craig as coal-fired plants shutter | SteamboatToday.com \(steamboatpilot.com\)](#)
- [First-of-its kind project in Colorado will bury 350,000 tons of planet-warming carbon that would have been released into the air | Colorado Public Radio \(cpr.org\)](#)
- [Colorado pioneering carbon capture project at ethanol plants \(coloradosun.com\)](#)
- [Colorado's first commercial carbon-capture projects unveiled - Denver Business Journal \(bizjournals.com\)](#)

### Connecticut

[Old Saybrook Partners Launch Carbon Capture Startup \(ctexaminer.com\)](#)

### Illinois

- [County committee explores many topic Monday night – The Breeze-Courier \(breezecourier.com\)](#)

### Indiana

- [Ind. carbon storage project seeks protection from lawsuits | Energy News Network](#)

### Iowa

- [Iowa carbon pipeline opponents see lessons in Dakota Access fight | The Gazette](#)

### Louisiana



- [Venture Global signs another LNG contract with a firm in Asia | Business | theadvocate.com](#)

### **Michigan**

- [Michigan startup makes device that collects CO2 from semitruck tailpipes | Bridge Michigan](#)

### **Minnesota**

- [5 things to know today: Summit Carbon, Voided signatures, Re-Vision Moorhead, Veterans court, Feedlot fix - InForum | Fargo, Moorhead and West Fargo news, weather and sports](#)

### **New Mexico**

- [Hydrogen part of clean-energy future: New Mexico can lead way - Albuquerque Journal \(abqjournal.com\)](#)
- [Hydrogen hub won't be good for New Mexico | My View | santafenewmexican.com](#)

### **North Carolina**

- [What is carbon capture? | wncn.com](#)

### **North Dakota**

- [Burleigh County opposes eminent domain for CO2 pipeline | Bismarck | bismarcktribune.com](#)
- [ND Landowners Build Opposition to Land Use for Carbon Pipeline / Public News Service](#)
- [SAFuelsX among companies vying for round two of Clean Sustainable Energy Authority Grants | Oil And Energy | willistonherald.com](#)

### **Ohio**

- [Babcock & Wilcox expects milestone year in shift to clean technologies \(beaconjournal.com\)](#)

### **Pennsylvania**

- [Hilary Mercer and Kevin Walker: In Southwestern Pa., the way to a new energy reality | TribLIVE.com](#)
- [In Pennsylvania's Hotly Contested 17th Congressional District, Climate Change Takes a Backseat to Jobs and Economic Development - Inside Climate News](#)

### **South Dakota**

- [Proposed CO2 pipelines thrust South Dakota into billion-dollar debate over carbon capture technology and climate change | KELOLAND.com](#)
- [Hundreds of South Dakota residents concerned about proposed carbon pipeline | Kiowa County Press - Eads, Colorado, Newspaper](#)

- Pipeline moratorium considered by Minnehaha County Commission ([dakotane.wsnow.com](http://dakotane.wsnow.com))

### Tennessee

- Fed utility weighs coal plant switch options, climate impact - ABC News ([go.com](http://go.com))

### Texas

- Jonathan Grammer to Speak at Texas Tech University on Carbon Capture | Local News | [cleburnetimesreview.com](http://cleburnetimesreview.com)
- Research to begin at largest artificial reef in Texas – Port Isabel-South Padre Press ([portisabelsouthpadre.com](http://portisabelsouthpadre.com))
- Oil companies plan to store emissions under the Gulf of Mexico, but they want public money to move forward | Texas Standard
- Talos, Carbonvert Bring Chevron Aboard to Propel CCUS Project Offshore Texas - Natural Gas Intelligence
- Oil firms are stepping up on clean energy, to Texas' benefit | Fort Worth Star-Telegram
- CSRWire - Enbridge and Humble Midstream to Develop Low-carbon Hydrogen and Ammonia Production and Export Facilities at Enbridge Ingleside Energy Center

### West Virginia

- Trump-backed Mooney ousts McKinley in W.Va. primary - E&E News ([eenews.net](http://eenews.net))
- Manchin energy mantra collides with reality in W.Va. - E&E News ([eenews.net](http://eenews.net))
- POLITICO Pro | Article | Manchin rips Biden for canceling offshore oil lease sales: 'Just awful'

### Wyoming

- Technip Energies and Saulsbury Industries Awarded EPC Contract for Carbon Capture & Storage at ExxonMobil LaBarge, Wyoming, US Facility ([yahoo.com](http://yahoo.com))
- Gateway South Transmission Line wins Wyoming OK to Proceed | T&D World ([tdworld.com](http://tdworld.com))
- UW Researchers Receive Advanced Photon Source Use Award From Argonne National Laboratory | News | University of Wyoming ([uwyo.edu](http://uwyo.edu))
- Wyoming Gov Mark Gordon Proud Of Work In First Term, Says Covid Was Toughest Challenge | Cowboy State Daily
- Wyoming poised to pursue federal Infrastructure Act money - County 10™

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## Upcoming events

### May 16

- Charting an Energy Transition Path Towards Economic Growth: ACCD and Team PA Event

### May 17 – 18

- [Register for the 2022 Western Prosperity Roundtable Forum | WGA \(westgov.org\)](#)

#### May 18

- [2022 Sustainability Summit | Politico Live](#)

#### May 19 – 20

- [Workshop | CCU TEA and LCA Guidance – A Harmonized Approach](#)

#### May 25 – 26

- [Turning Federal Investment into Action: Scaling Carbon Management Technologies and Infrastructure](#)

#### June 7

- [WEBINAR - High integrity isolation solutions for CO2 and hydrogen pipelines | World Pipelines](#)

#### June 14-16

- [Registration North America 2022 - Carbon Capture Technology Conference & Expo North America 2022 \(ccus-expo.com\)](#)

#### June 26 - 30

- [19th Annual International Conference on Carbon Dioxide Utilization](#)

#### June 30

- [Direct Air Capture Summit, hosted by Climeworks](#)

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*To subscribe or request to add an event, news story, report, blog, or job posting to the update please reach out to Emma Thomley at [ETHomley@gpisd.net](mailto:ETHomley@gpisd.net) Want to read more carbon management updates, studies, and fact sheets? Visit us at [Carbon Capture Ready](#).*

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