



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

March 4, 2022

State Carbon Management Legislative Highlights

- **Indiana** passed [HB 1209](#), *Carbon sequestration projects*, 28 -20 in the Senate and 75-17 in the House on March 1. The bill heads to the governor's office for final approval. The bill provides the mechanism for transportation and underground storage of carbon dioxide in Indiana and clarifies that pore space is owned by the surface owner.
- **Maryland** introduced [HB 1366](#), *Zero-Emission Energy Resources and Carbon Capture, Use, and Sequestration – Renewable Energy Portfolio Standard and Study*, on February 11. The bill requires the Maryland Energy Administration, in consultation with the Public Service Commission, the Department of the Environment, and the Department of Natural Resources, to conduct a study on carbon capture, use, and sequestration.
- **Minnesota** introduced [SF 3661](#), *State policy supporting the deployment of carbon capture and sequestration technologies establishment*, on March 2. The bill provides support for carbon management projects, stating that it is policy of the state to support the development and deployment of carbon capture and sequestration technologies in Minnesota as a method of reducing greenhouse gas emissions.
- **South Dakota** passed [HB 1120](#), *Include carbon dioxide and carbon dioxide capture companies in certain provisions regarding pipeline taxation*, on March 3. The bill heads to the governor's office for final approval. The bill states that every person, co-partnership, association, limited liability company, corporation, or syndicate engaged in the business of transporting or transmitting gas, gasoline, oils, carbon dioxide, or motor fuels by means of pipelines as a common carrier, whether such pipelines be owned or leased, shall be taxed.
- **West Virginia** passed [HB 4491](#), *To establish requirements for carbon dioxide sequestration*, 90-9 in the House and 33-0 in the Senate on March 1. The bill heads to the governor's office for final approval. The bill clarifies regulations for the permitting, drilling, operation, and closure of injection wells for storing carbon dioxide and establishes a statutory framework to support carbon management projects.
- **Wyoming's** [SF 47](#), *Carbon storage and sequestration-liability*, has moved to the second chamber. The bill clarifies ownership of carbon dioxide injected into geologic

sequestration sites and specifies the transfer of title and liability of injected carbon dioxide.

For more details on these bills and over 40 others, read our [weekly digest](#) on state carbon management legislation.

NETL Releases Updated CO2U LCA Toolkit

The National Energy Technical Laboratory (NETL) released the second version of their CO2 LCA Toolkit on February 23. The [toolkit](#) serves as a valuable resource for PI's creating lifecycle analyses (LCA), which evaluate the environmental, economic, and social attributes of energy systems, based on the Department of Energy's (DOE) funding opportunity announcement requirements. The requirements were set by the DOE Office of Fossil Energy NETL's carbon utilization program.

PI's receiving funding are required to use lifecycle analysis to compare to other technology options. The toolkit helps PI's working on carbon management projects create these LCA's and includes:

- A guidance document;
- A documentation spreadsheet;
- Training resources
- OpenLCA LCI (life cycle inventory) database
- 45Q addendum and tools, and;
- OpenLCA contribution tool;
- Expert support resources.

Access the toolkit [here](#).

News Roundup

- [Talos Energy to seek approvals for several carbon-capture projects | Reuters](#)
 - [Manchin lays out a Dem bill he can back: Taxes, prescription drugs, climate cash - POLITICO](#)
 - [What Biden Said--and Didn't Say--on Climate During the State of the Union - Scientific American](#)
 - [State of the Union: All the energy takeaways - E&E News \(eenews.net\)](#)
 - [Three Fixes to Build Energy Projects Cleaner and Faster - Scientific American](#)
 - [New, nature-inspired concepts for turning carbon dioxide into clean fuels \(phys.org\)](#)
 - [POLITICO Pro | Article | Fossil fuel dominance will limit U.S. emissions decline through 2050, EIA says](#)
-

Global News

- [Gas, oil producer Neptune plans to store more carbon than it emits by 2030 \(arabnews.com\)](#)
 - [Santos signs Australian carbon storage MoU | Offshore \(offshore-mag.com\)](#)
 - [Benefits of proposed Central Alberta carbon capture project touted - TownAndCountryToday.com](#)
 - [South Korean companies sign up with Santos for carbon capture projects Down Under | Upstream Online](#)
 - [Danish Climate Task Force Wants Tax Subsidy for Carbon Capture \(bloombergtax.com\)](#)
 - [Clean Hydrogen collaboration between Johnson Matthey and 8 Rivers to accelerate global decarbonisation | | victoriaadvocate.com](#)
-

New podcasts, reports, statements & blogs

- [Should we just burn hydrogen for electricity? - Power Engineering \(power-eng.com\)](#)
 - [CCL's legislative roundup: What we've accomplished | Citizens' Climate Lobby \(citizensclimatelobby.org\)](#)
 - [What-The-Experts-Say-About-CCS-9.pdf \(globalccsinstitute.com\)](#)
 - [New Study from StrategyR Highlights a \\$4.9 Billion Global Market for Carbon Capture and Storage by 2026 \(prnewswire.com\)](#)
 - [North America's Carbon Capture and Storage Developments \(azocleantech.com\)](#)
 - ['Not the new oil.' Report maps barriers for clean hydrogen - E&E News \(eenews.net\)](#)
 - [Production of Hydrogen and Carbon Capture and Storage \(CCS\) in Mexico: A Regulatory Analysis - Lexology](#)
 - [Americans Largely Favor U.S. Taking Steps To Become Carbon Neutral by 2050 | Pew Research Center](#)
 - [Decarbonizing the oil refining industry: A systematic review of sociotechnical systems, technological innovations, and policy options - ScienceDirect](#)
 - [2022 Sustainable Energy in America Factbook - BCSE](#)
-

News in the States

Alabama

- [Denbury Resources reveals 2022 plans, new carbon solution deals | Upstream Online](#)

Alaska

- [Alaska Journal | Alaska gas can help unlock national strategic, economic and climate goals](#)

California

- [Chevron announces investment in Carbon Clean CO2 capture technology business — Chevron.com](#)

Colorado

- [Colorado dreams of being a hydrogen power hub. Here's what that'd look like. \(coloradosun.com\)](#)
- [Mountain West governors ban together on regional clean hydrogen hub | KSUT Public Radio](#)

Florida

- [Big Storm Brewing utilizing new technology to reduce carbon footprint • St Pete Catalyst](#)

Illinois

- [Illinois Residents Have Opportunity To Learn About Carbon Dioxide Pipeline Risks, Other Issues | RiverBender.com](#)
- [Farm Bureau meeting focusing on carbon-capture pipeline planned for region \(myjournalcourier.com\)](#)

Indiana

- [Indiana Senate narrowly passes bill to allow companies to store CO2 \(wfyi.org\)](#)

Iowa

- [Carbon-capture pipeline planned by Summit gets \\$250M from Harold Hamm \(desmoinesregister.com\)](#)
- [Oil driller invests in carbon-capture pipeline for Midwest - ABC News \(go.com\)](#)
- [World's Largest Carbon Capture and Sequestration Project Now Underway \(environmentalleader.com\)](#)
- [Carbon pipeline headed for North Dakota oil wells? Summit says 'no' but skeptics remain - Agweek | #1 source for agriculture news, farming, markets](#)
- [Protesters gather in Butler County to stand against carbon sequestration pipeline \(kcrg.com\)](#)
- [Community News: Landowners hire legal team to fight eminent domain abuse \(3/1/22\) | Dickinson County News](#)
- [Local News: Drainage crossing ordinance approved by county \(3/1/22\) | Dickinson County News](#)

Kansas

- [Oak Ridge, TVA to partner on decarbonization technologies | The Kansas City Star](#)

Kentucky

- [LG&E and KU Supporting Kentucky's Hydrogen Hub Efforts | UKNow \(uky.edu\)](#)
- [At the forefront of research and technology for the benefit of the environment | LG&E and KU \(lge-ku.com\)](#)
- [Louisville Gas and Electric and Kentucky Utilities join Kentucky's study of low-carbon hydrogen - Daily Energy Insider](#)

Louisiana

- [Talos Looks to Build Louisiana CCS Project, Nabs CO2 Transport Pact with EnLink - Natural Gas Intelligence](#)

Michigan

- [Enjoy a Carbon and Tonic: The New and Unusual Ways to Use Captured CO2 - WSJ](#)
- [Will Nuclear Plant Closure Risk Michigan's Zero-Carbon Future? \(governing.com\)](#)

Minnesota

- [Continental Resources ventures into carbon capture with 5-state ethanol project - Agweek | #1 source for agriculture news, farming, markets](#)

New Mexico

- [Hydrogen Can Work – But New Mexico Needs A Plan – Los Alamos Reporter](#)
- [NTEC invests in Enchant Energy and takes a seat on the company's board \(daily-times.com\)](#)
- [New Mexico joins 3 other states to compete for federal hydrogen funds \(currentargus.com\)](#)
- [New Mexico Climate Activists Vow to Try Again on Net Zero Bill | RTO Insider](#)

North Dakota

- [Continental Resources investing in 5-state carbon capture project - Agweek | #1 source for agriculture news, farming, markets \(inforum.com\)](#)
- [Summit Carbon Solutions to Build Capture Project in ND | News Dakota](#)
- [Sen. Cramer Statement on Summit Carbon Solutions and North Dakota Carbon Capture Pipeline \(senate.gov\)](#)
- [State Land Port awarded funding from bipartisan infrastructure law \(devilslakejournal.com\)](#)
- [Russian invasion spiked oil prices to 2014 levels, but analysts still believe production bump in North Dakota's Bakken still unlikely | Oil And Energy | willistonherald.com](#)
- [Governors tout importance of carbon capture to U.S. energy security as Summit Carbon Solutions announces major investment by Continental Resources | North Dakota Office of the Governor \(nd.gov\)](#)
- [Carbon capture storage project will hold CO2 underground in North Dakota \(valleynewslive.com\)](#)
- [Continental to build major carbon capture project | The Journal Record](#)

Ohio

- [The case for a hydrogen hub in Ohio | Crain's Cleveland Business \(crainscleveland.com\)](#)
- [Penn., Ohio and W.Va. Considering Regional Hydrogen Hub | RTO Insider](#)
- [WV, OH, PA Compete Against Each Other to Attract \\$2B Hydrogen Hub | Marcellus Drilling News](#)

Oregon

- [The Portland Cement Association Urges Strong Federal Support for Accelerating Industrial Decarbonization Technologies \(prnewswire.com\)](#)

Pennsylvania

- [Legislator urges support of hydrogen hub in Pennsylvania - Pittsburgh Business Times \(bizjournals.com\)](#)
- [Key Points from Senate Budget Hearings Tuesday, March 1 - Pennsylvania Senate Republicans \(pasenategop.com\)](#)
- [Expert sees Pittsburgh region's huge advantage in hydrogen, carbon capture - Pittsburgh Business Times \(bizjournals.com\)](#)

South Dakota

- [Redfield Press | Redfield Press Q & A with Summit Carbon Solutions director of environmental, Chris Hill \(Part 1\)](#)
- [Questions arise about Summit Carbon Solutions' political background \(aberdeennews.com\)](#)

Tennessee

- [ORNL, TVA to drive decarbonization, explore carbon-free technologies \(oakridger.com\)](#)

Texas

- [Exxon plans hydrogen and carbon-capture/storage plant near Houston | Reuters](#)
- [Chasing carbon capture and sequestration options in one of the largest ports in U.S. - Offshore Energy \(offshore-energy.biz\)](#)
- [Exxon To Mount A Major Hydrogen, CCS Project At Its Baytown Complex \(forbes.com\)](#)

West Virginia

- [State, congressional leaders hoping to bring hydrogen hub to West Virginia \(senate.gov\)](#)
- [West Virginia Legislature completes action on carbon sequestration bill | WV News | wvnews.com](#)
- [WV House approves bill that would set up state regulations for underground carbon dioxide storage | Energy and Environment | wvgazette.com](#)
- [Officials Eye Hydrogen Hub for West Virginia | News, Sports, Jobs - The Intelligencer](#)
- [Leaders hoping to bring hydrogen hub to West Virginia | News, Sports, Jobs - Weirton Daily Times](#)

Wyoming

- [Exxon \(XOM\) to Build \\$400 Million Wyoming Carbon-Capture Project After Delay - Bloomberg](#)
- [Exxon to spend \\$400M on Wyoming carbon capture expansion \(NYSE:XOM\) | Seeking Alpha](#)
- [ExxonMobil reaches FID for LaBarge carbon capture expansion | Upstream Online](#)
- [ExxonMobil to Expand Carbon Capture and Storage at Wyoming Facility \(environmentalleader.com\)](#)

Upcoming events

March 4

[IEAGHG Webinar: Criteria for Depleted Reservoirs to be Developed for CO2 Storage](#)

March 17

NAE GRP Colloquium Opportunities and Challenges Carbon Capture Utilization and Sequestration | National Academies

March 17

The future of direct air capture policy | fireside chat (Climeworks and Carbon180)

March 28

Carbon, Capture, Utilization, and Storage (CCUS) Conference | Houston (aapg.org)

March 29

[Webinar] Developing & Financing Low Carbon Hydrogen Projects - March 29th, 12:00 pm - 1:00 pm CT | Vinson & Elkins LLP - JDSupra
ES Digest 02-22-2022 | RSVP (Blank) ES Hydrogen 03-29-2022 JD Supra (velaw.com)

March 29 – 31

Carbon, Capture, Utilization, and Storage (CCUS) Conference | AAPG

April 3-8

2022 Carbon Capture, Utilization and Storage Conference | GRC

April 12

All In: Decarbonization Solutions for the Energy Transition

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 Want to read more carbon management updates, studies, and fact sheets? Visit us at [Carbon Capture Ready](#).

About this email: You are receiving this message as part of newsletter subscription to the RDI Update. If you no longer wish to receive the weekly newsletter, you can email ethomley@gpisd.net to be removed from the list.