



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

December 9, 2022

Upcoming PHMSA Public Meetings to Discuss CO₂ Pipeline Safety

The Pipeline and Hazardous Materials Safety Administration (PHMSA) is [hosting public meetings](#) in Houston, Texas, Tuesday December 13, 2022 - Thursday December 15, 2022. During these meetings, PHMSA will discuss its climate and energy transformation efforts and role regarding carbon dioxide and hydrogen pipelines. PHMSA will also share important safety information and gather input to help inform future rulemaking or regulatory decisions.

Carbon Dioxide (CO₂) pipeline safety is regulated by the federal PHMSA. In May 2022, PHMSA [announced several additional measures](#) to ensure that the further buildout of CO₂ pipelines necessary to achieve net-zero emissions by 2050 is done to the highest safety standards, including initiating a new rulemaking to update standards for CO₂ pipeline

In-person registration closed on Dec. 7 but online viewing is available via [webcast](#) and interested individuals can [register and submit comments and questions](#) to meeting planners in advance of the meeting

FECM Seeking Reviews for Equity, Justice, Jobs, and Community Engagement in Funding Applications

The U.S. Department of Energy's (DOE) Office of Fossil Energy and Carbon Management (FECM) is looking for a diverse pool of individuals to review the equity, justice, jobs, and community engagement sections of funding opportunity applications.

FECM is looking for reviewers with academic, subject matter, and/or practitioner experience in at least one of following areas:

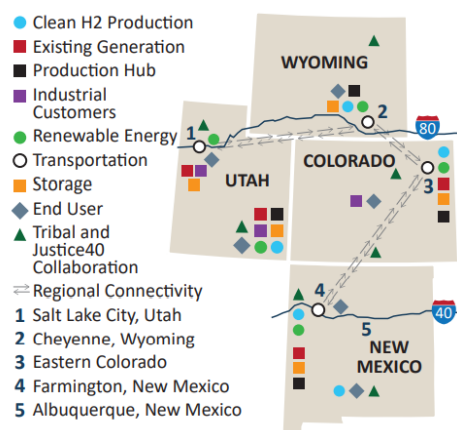
- Diversity, equity, inclusion, and accessibility (DEIA);
- Community and stakeholder engagement;
- Workforce development and quality jobs; and
- Environmental justice.

Interested in reviewing? Send your resume to SCI_FECM@NETL.DOE.GOV. Please note that compensation is available.

ICYMI: Western Interstate Hydrogen Hub Releases Concept Paper for Hydrogen Hub

The Western Interstate Hydrogen Hub (WISHH), a collaboration between Colorado, New Mexico, Utah, and Wyoming released on Nov. 15 a public version of a [concept paper](#) it submitted to the US Department of Energy's (DOE) Regional Clean Hydrogen Hubs program. The concept paper describes the vision for the hub including

- Eight major hydrogen projects, replacing coal-fired power plants and supplying a mix of hydrogen and natural gas to local communities and for transportation
- Generation of 1,000 MT/day by the seventh year of the hub
- Storing hydrogen underground in geologic storage in the region
- Using existing pipeline corridors and minimizing additional environmental impact
- Engagement of all stakeholders in planning efforts at all stages of project development



Locations of potential WISHH H2hub projects (pg. 3)

Air Products and AES Collaborate on Texas Green Hydrogen Project

Air Products and AES Corporation recently [announced their plans to collaborate on building a solar-and-wind-powered hydrogen facility in Texas](#). The facility will produce hydrogen for industrial and heavy-duty transportation uses and is estimated to have capacity to produce up to 200 metric tons of hydrogen per day. The two companies will equally own the renewable energy and electrolyzer components of the project and Air Products will market the hydrogen.

AES and Air Products estimate that “*The project would create more than 1,300 construction and 115 permanent operations jobs, as well as about 200 transportation and distribution jobs.*” The hydrogen plant is slotted to begin commercial operations in 2027.

GPI's Matt Fry Gives Industry and State Advice in Carbon Capture Magazine Podcast

In Carbon Capture Magazine's latest podcast "[Making Sure Industry is Carbon Management Ready](#)", Great Plains Institute's senior policy manager, Matt Fry, discusses how states and industries can become ready for carbon management projects. Overall, industry needs to ensure they have "buildable projects"—the economic and technical capacity to build a project. They also need to consider the local geography of where their project may be located when considering carbon dioxide transport and storage.

States preparing for carbon management need laws in place that allow for projects to be built. These laws may assign management to a particular agency, decide how projects will be managed in perpetuity, clarify property rights, and more.

During the podcast, Matt also gives advice for organizations working in the carbon management space, discusses tax incentives for carbon management, and identifies obstacles to moving forward.

Listen [here](#).

News Roundup

- [Carbon Capture Said Essential to Future of Natural Gas - Natural Gas Intelligence](#)
 - [How hydrogen hubs may point way to clean energy transition - Pittsburgh Business Times \(bizjournals.com\)](#)
 - [Oil firms dismiss 'energy transition' even while touting it - The Washington Post](#)
 - [Why are Hydrogen Hubs, like the ARCH2 Proposal, a Big Deal? | Marcellus Drilling News](#)
 - [Proposals for hydrogen hub in Appalachia show potential, but challenges abound - Pittsburgh Business Times \(bizjournals.com\)](#)
 - [Carbon Capture Coalition Transmits Direct Pay and Transferability Priorities to Treasury and IRS](#)
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Global News

- [Australia must beef up response to hydrogen initiatives in US Inflation Act, BP executive says | The West Australian](#)
- [Cement Australia signs carbon capture and storage deal with KC8 \(afr.com\)](#)
- [Belgium steel plant's flagship CCU project will produce advanced ethanol - Canadian Biomass Magazine](#)
- [Athabasca Oil to greenlight carbon capture project next year | Financial Post](#)
- [BP signs MoU to develop large-scale green hydrogen plant in Egypt \(NYSE:BP\) | Seeking Alpha](#)
- [Alberta Hydrogen's hurdles – market and regulatory development | BOE Report](#)

New podcasts, reports, statements & blogs

- [Nuscale, Shell and Partners to Assess Hydrogen Production Using SMR - Hydrogen Central \(hydrogen-central.com\)](#)
- [API Submits Comments on DOE Clean Hydrogen Strategy | Rigzone](#)
- [ACC Responds to Administration's RFIs on Clean Hydrogen, Carbon Oxide Sequestration, and Clean Vehicles \(americanchemistry.com\)](#)
- [How hydrogen hubs may point way to clean energy transition - Pittsburgh Business Times \(bizjournals.com\)](#)
- [Hydrogen from Natural Gas without Carbon Dioxide Emissions : Biofuels Digest](#)
- [An integrated, net-negative system captures carbon and produces ethylene | UIC Today](#)
- [A breakout year for carbon removal? | Canary Media](#)

News in the States

California

- [SoCalGas Receives Sustainable Innovation Award from U.S. Green Building Council - Los Angeles for \[H2\] Innovation Experience Project \(prnewswire.com\)](#)
- [California Resources to Sequester Carbon at State's First Blue Hydrogen Project - Natural Gas Intelligence](#)
- [New 'blue hydrogen' proposal in Elk Hills would be California's first \(yahoo.com\)](#)

Florida

- [Clean hydrogen plant planned for Polk County - Tampa Bay Business Journal \(bizjournals.com\)](#)

Illinois

- [U of I Prairie Research Institute breaks ground on carbon capture pilot project | WCIA.com](#)

Indiana

- [BP doubles down on hydrogen as fuel of the future | Reuters](#)
- [BP explores carbon storage in Benton County, sparks controversy | News | wlfj.com](#)
- [Cleveland-Cliffs Submits Application for Front-End Engineering Design for Large-Scale Carbon Capture | Business Wire](#)
- [Cleveland-Cliffs seeks federal funding to study potential carbon capture facility at Indiana steel plant - Duluth News Tribune | News, weather, and sports from Duluth, Minnesota](#)
- [Cleveland-Cliffs eyes carbon capture at Burns Harbor \(nwtimes.com\)](#)
- [Carbon Capture Deployed for Indianapolis Airport Runway Revamp | Engineering News-Record \(enr.com\)](#)

Iowa

- [Wolf Carbon Solutions to meet with public to address carbon pipeline \(wbrc.com\)](#)
- [Wolf meets with landowners, begins road to permitting carbon pipeline | Iowa Public Radio](#)
- [Carbon capture project discusses during tour of Cerro Gordo County ethanol plant | News | kimt.com](#)
- [Adair County passes pipeline regulation ordinance - Radio Iowa](#)

Louisiana

- [Louisiana First Horizon Foundation Supports Blue Carbon Progress \(prnewswire.com\)](#)
- [LSU researchers participating in federally funded clean energy project \(businessreport.com\)](#)
- [LSU to Play Major Role in CO2 Capture, Utilization, and Sequestration](#)

Nebraska

- [More than half the easements have been signed in Nebraska for Summit pipelines | News | norfolkdailynews.com](#)

New Mexico

- [New Mexico teams with three states in applying for hydrogen power funds \(currentargus.com\)](#)

New York

- [Avina Clean Hydrogen announces green ammonia offtake agreements \(h2-view.com\)](#)

North Dakota

- [Cramer: 2023 is an opportunity to talk about permitting reform | North Dakota | thecentersquare.com](#)

Ohio

- [State of Ohio and Business Community Show Support for the Appalachian Regional Clean Hydrogen Hub \(ARCH2\) Joining Battelle and Major Energy and Technology Companies | Business Wire](#)
- [Finally! Ohio Joins Effort to Locate Hydrogen Hub in West Virginia | Marcellus Drilling News](#)
- [Ohio and Business Community Show Support for Appalachian Hydrogen Hub - Business Journal Daily | The Youngstown Publishing Company](#)

Texas

- [Energy Department's Brad Crabtree speaks at CO2 Conference \(houstonchronicle.com\)](#)
- [Texas Alliance: More infrastructure could ease emissions concerns \(mrt.com\)](#)
- [CEMEX USA scores \\$3.7M from DOE to fund carbon capture study using non-aqueous amine technology : Biofuels Digest](#)
- [Oxy, Enbridge Pondering Carbon Capture Hub in Corpus Area of South Texas - Natural Gas Intelligence](#)
- [CO2 Conference in Midland delves into sequestration environment \(mrt.com\)](#)

- [Ionada Completes Revolutionary Carbon Capture Pilot Project - EIN Presswire \(einnews.com\)](#)
- [HIF awards Feed contract for Texas efuels plant \(pemedianetwork.com\)](#)
- [Oxy, Enbridge Pondering Carbon Capture Hub in Corpus Area of South Texas - Natural Gas Intelligence](#)

Wyoming

- [Gordon restates vision of a carbon-negative Wyoming, but sets no timeline | Wyoming Public Media](#)
- [Wyoming utility regulators discuss implementing carbon capture | Wyoming Public Media](#)
- [Carbon Capture coming to Sweetwater County - Wyo4News](#)
- [Gordon Presents \\$354 Million Supplemental Budget, Calls It "Conservative And Bold" | Cowboy State Daily](#)

Upcoming events

December 12

- [Carbon Capture and Storage: Path to Sustainability Tickets, Mon, Dec 12, 2022, at 8:30 AM | Eventbrite](#)

Richland Community College, Illinois State Geological Survey, Wolf Carbon Solutions, and ADM invite you to Carbon Capture and Storage: Path to Sustainability. Learn about the basics of carbon capture and storage (CCS) technology, environmental sustainability education and outreach at Richland, and CCS projects in Decatur. Additionally, ADM will provide a tour of the Illinois Industrial Carbon Capture and Storage (IL-ICCS) Project, including the CO2 compression and dehydration facility and injection and monitoring wells. CO2 pipelines will also be discussed.

December 13 – 15

- [See Featured News Story on PHMSA Meetings](#)

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](#)