



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

September 9, 2022

Wyoming Direct Air Capture Project Announced

CarbonCapture Inc. and Frontier Carbon Solutions announced yesterday their collaborative Direct Air Capture (DAC) and storage project, Project Bison.

The groundbreaking project is located in Wyoming and will be the first large-scale DAC plant in the US and the first to use Class VI wells for carbon storage. CarbonCapture will develop the direct air capture system for the project and Frontier Carbon Solutions will develop the carbon dioxide transport and storage portion of the project. The captured carbon dioxide will be used to help provide carbon credits.

Project Bison is expected to be operational by late 2023 and will potentially capture and store five million tons of carbon dioxide annually by 2030.

Related News

- [Direct air carbon capture project planned for Wyoming \(powerengineeringint.com\)](#) EXCLUSIVE New law helps U.S. firm launch Wyoming direct air carbon capture project | Reuters
- [CarbonCapture Inc. Announces Five Megaton Direct Air Capture and Storage Project in Wyoming | Business Wire](#)
- [New large-scale carbon capture project slated for Wyoming - Casper, WY Oil City News](#)

DOE Releases Industrial Decarbonization Roadmap

The Department of Energy (DOE) [announced the release](#) of its “[Industrial Decarbonization Roadmap](#)” yesterday. The report identifies four key pathways to reduce emissions across the United States’s most energy-intensive sectors, focusing on five of the highest carbon dioxide-emitting industries (iron, steel, cement, and concrete) where decarbonization efforts can have the greatest impact. The four pathways include:

- Energy efficiency
- Industrial electrification.
- Low carbon fuels, feedstocks, and energy sources (LCFFES)
- Carbon capture, utilization, and storage (CCUS)



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

The roadmap will be accompanied by a \$104 million funding opportunity to fund projects that advance industrial decarbonization technologies based on the roadmap's topics and recommendations. Concept papers for funding are due by October 22.

Related news

- [To decarbonize industry, DOE road map focuses on efficiency, electrification and low-carbon fuels | Utility Dive](#)
- [DOE roadmap highlights the potential of CCUS at ethanol plants | EthanolProducer.com](#)
- [DOE Roadmap Tackles Tough Industrial Carbon Emissions | RTO Insider](#)

Cement plant in Mitchell Indiana Receives DOE Funding for Carbon Capture FEED Study

Cement company Lehigh Hanson, Inc. announced last week it has received \$3.7 million in funding from the U.S. Department of Energy's (DOE) Office of Fossil Energy and Carbon Management (FECM) to conduct a front-end engineering design (FEED) study to retrofit its cement plant in Mitchell Indiana with carbon capture technology. Once retrofitted, the plant has the potential to capture and store around two million metric tons of carbon dioxide annually.

Related News

- [Lehigh Hanson Receives U.S. DOE Funding for FEED study of carbon capture project at its new Lehigh Cement Plant in Mitchell, Indiana](#)
- [Lehigh Hanson awarded US\\$3.7m for Mitchell carbon capture project \(cemnet.com\)](#)

ConocoPhillips and JERA to Develop Hydrogen Project Along the Gulf Coast

Oil and gas exploration company ConocoPhillips announced on Monday that it will provide natural gas and manage a carbon capture and storage facility for a proposed U.S. hydrogen gas project developed by Japan based utility company JERA.

The plant will convert the hydrogen to ammonia and could be in operation within five to eight years.

- [ConocoPhillips, JERA proposing to develop U.S. hydrogen gas plant | Reuters](#)
- [ConocoPhillips, Jera team up for Gulf Coast ammonia project - Houston Business Journal \(bizjournals.com\)](#)



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

- [US: ConocoPhillips will supply gas for hydrogen project - Green Hydrogen News \(energynews.biz\)](#)

Join GPI for the Launch of the Carbon Management Action Network this October

Please join the Great Plains Institute's for our upcoming Carbon Management Action Network Launch on October 26 in New Orleans, Louisiana. The Action Network is the nation's first integrated federal and state advocacy network for action on carbon management policy and deployment action at the federal, state and regional levels.

Learn more about the event and register [here](#).

News Roundup

- [Inflation Reduction Act charts a new course for US biofuels industry | S&P Global Commodity Insights \(spglobal.com\)](#)
- [Why so many LNG terminals are adopting carbon capture - E&E News \(eenews.net\)](#)
- [There's a New Race to Develop Bite-Sized Carbon Capture Tech | Financial Post](#)
- [A new carbon capture startup targets \\$5M for initial funding \(axios.com\)](#)
- [EJ communities are wary as CCS racks up policy wins - E&E News \(eenews.net\)](#)
- [\\$1B Build Back Better Regional Challenge Finalists | U.S. Economic Development Administration \(eda.gov\)](#)

Global News

- [Carlton Power unveils plan for South West green hydrogen hub | BusinessGreen News](#)
- [JFE Steel, Emirates Steel and Itochu to study building supply chain for low-carbon ironmaking - Green Car Congress](#)
- [Santos advances carbon capture and storage ambitions | Upstream Online](#)
- [EnQuest eyes carbon storage, green hydrogen production at Shetland facilities | Offshore \(offshore-mag.com\)](#)



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

- Indonesian oil company Pertamina ramps up carbon capture efforts - Nikkei Asia
- Petrobras eyes carbon capture and storage solutions for Brazilian industry in change of stance | Upstream Online
- Varco: Canada 'falling behind' in carbon capture race | Regina Leader Post
- Chevron Granted Interest in Three Permits to Assess Carbon Storage Offshore Australia | Business Wire

New podcasts, reports, statements & blogs

- Where will Heirloom's Direct Air Capture facilities be deployed? | by Heirloom | Sep, 2022 | Medium
- Planned Capacity of CO2 Capture Almost 1 Billion Tonnes (carbonherald.com)
- Buying Power: How Federal Procurement Can Drive Clean Energy Innovation | ITIF
- ABS Publishes Report on Onboard Carbon Capture - Ship & Bunker (shipandbunker.com)
- NETL Solvents: Solutions for Carbon Capture and Help for U.S. Farmers | netl.doe.gov

News in the States

California

- California evolves its climate leadership by increasing its options – Clean Air Task Force (catf.us)
- Legislature sends carbon sequestration bill and billions in climate spending to Newsom | Agri-Pulse Communications, Inc.
- Package of Climate Bills Passed In California (natlawreview.com)
- California Legislature Passes Bills to Create Regulatory Framework for Carbon Capture Projects | BakerHostetler - JDSupra

Illinois

- A new carbon dioxide pipeline could run through Peoria and Tazewell counties | Peoria Public Radio (wcbu.org)

Iowa

- Opinion: Carbon capture project provides economic opportunities (amestrib.com)



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

- [Letter: Say 'No' to carbon- capture pipelines | Opinion | nwestiowa.com](#)
- [Eminent domain concerns cloud pipeline proposals | Successful Farming \(agriculture.com\)](#)
- [Carbon pipeline company appeals ruling that made their affected landowner list public \(ktiv.com\)](#)
- [OCI Progresses Iowa's Carbon Capture & Sequestration Project to Abate its CO2 Emissions and Produce Low Carbon Ammonia, Urea and DEF in The US - Hydrogen Central \(hydrogen-central.com\)](#)

Louisiana

- [\\$1.1 Billion Tax-Exempt Bonds for Strategic Biofuels Project Approved by the Louisiana Community Development Authority | Business Wire](#)
- [Louisiana Marks Clean Energy 'Milestone' as Hydrogen Project Wins \\$50 Million Federal Grant - Hydrogen Central \(hydrogen-central.com\)](#)
- [Gov. Edwards Hails Clean Energy 'Milestone' as Louisiana Hydrogen Project Wins \\$50 Million Federal Grant - L'Observateur | L'Observateur \(lobservateur.com\)](#)
- [Louisiana marks clean energy 'milestone' as hydrogen project wins \\$50MM federal grant - BIC Magazine](#)

Minnesota

- [Summit Carbon Solutions the future of agriculture | News, Sports, Jobs - Marshall Independent](#)

New Mexico

- [NMED works on rules to limit carbon dioxide emissions from coal-fired power plants | The NM Political Report](#)
- [Can N.M. build world's largest coal CCS project? - E&E News \(eenews.net\)](#)
- [Will carbon capture help clean New Mexico's power, or delay its transition? - New Mexico In Depth \(nmindepth.com\)](#)

New York

- [Five long-duration energy storage projects get funding in New York \(power-eng.com\)](#)

North Dakota

- [Landowners facing lawsuits over surveyor access for Summit Carbon pipeline in North Dakota, South Dakota - Agweek | #1 source for agriculture news, farming, markets](#)
- [Investigating ND's Clean Energy Potential | Red River Farm Network \(rrfn.com\)](#)



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

- [Underground carbon storage gaining traction in Wyoming, but years away in Utah | KSL.com](#)

West Virginia

- [Federal manufacturing incentives raise hopes for hydrogen on WV's horizon | Business | herald-dispatch.com](#)
- [Officials, business leaders eye West Virginia workforce needs | Weirton Daily Times](#)
- [West Virginia University Research Corp. awarded over \\$1.4M to develop hydrogen production system | State Journal News | wvnews.com](#)

Wyoming

- [University Of Wyoming Breaks Ground On Coal Product Demonstration Project | Cowboy State Daily](#)

Upcoming events

September 12 – 16

- [Justice Week 2022 | Department of Energy](#)
The Department of Energy's Office of Economic Impact and Diversity (ED) is leading the way for a just transition to a new energy system. Join us at DOE or online during Justice Week to learn about how you can play a role in reshaping our energy futures.

September 13 – 14

- [Hydrogen Hubs: Building a Value Chain](#)
During this event communities in the hydrogen hub value chains will come together in one spot to discuss how to launch a new national hydrogen economy. Leaders from transportation, industrial gas distribution, pipeline, carbon-free hydrogen production technology and renewable energy communities—communities that normally don't communicate amongst themselves in the ordinary course of events—will be on hand to share their perspectives on what is needed to form an efficient and effective value chain to commercialize clean hydrogen production and distribution.

September 20

- [Center for Hydrogen Safety Americas Conference](#)
This conference will bring together representatives from industry, government, and academia to highlight the safe use of hydrogen in commercial and industrial applications.



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UPDATE

September 21 - 23

- [Global Clean Energy Forum \(gceaf.org\)](http://gceaf.org)

Directly following the UN General Assembly, the Global Energy Forum will convene governments representing most of the world's GHG emissions and 90% of public investment in clean energy, international organizations, clean energy financiers, industry leaders, unions, non-governmental organizations, young professionals and tech innovators. The purpose of this is to spur concrete action to implement clean energy deployment commitments that build on historic advancements in innovative technologies.

September 27 – 29

- [Register for the Policy Makers Symposium Here](#)

National Clean Energy Week brings together business leaders, advocates, policymakers, and trade associations from all perspectives who are dedicated to advancing clean energy. NCEW encompasses broad and diverse energy sources, including solar, wind, hydropower, geothermal, nuclear, natural gas, biomass, carbon capture, and waste-to-energy

October 4 - 5

- [American Carbon Capture Utilization and Storage Forum \(uscarboncaptureforum.com\)](http://uscarboncaptureforum.com)

The forum will gather all relevant stakeholders from energy companies, government and research sectors as well as solution providers where experts will have an opportunity to present their perspective, share latest findings and raise important questions.

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](#).

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