



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

January 14, 2022

DOE Announces 420 million in Funding for Climate Research

On Jan 13 The Department of Energy [announced](#) that Energy Frontier Research Centers (EFRC) will receive 420 million dollars to advance climate research. There are 41 research centers across the country, with participation from researchers of various backgrounds. The funding is available for research projects advancing clean energy solutions, including low carbon and carbon capture research.

An informational meeting about the funding opportunity and EFRC program will be held on Jan 19. Register [here](#).

Summit Carbon Solutions and Northern Plains Nitrogen to Collaborate on Low-carbon Fertilizer Project

Summit Carbon Solutions and Northern Plains Nitrogen (NPN) recently announced their partnership and will work together to decrease carbon emissions at an ammonia plant in North Dakota. Summit Carbon Solutions is working to decarbonize the agriculture industry through carbon capture and will help NPN produce low-carbon fertilizer at the plant.

NPN's facility could capture up to 500,000 tons of carbon dioxide emissions per year. The plant will produce low carbon nitrogen-based fertilizer and serve farmers in the northern US and Canada. Summit Carbon Solutions will help reduce the plant's carbon emissions by transporting and storing the CO2 permanently in central North Dakota.

NPN has acquired a project site and necessary permits. Construction is estimated to begin in 2025.

- [Northern Plains Nitrogen | Summit Carbon Solutions Partners with Blue Ammonia Project to Decarbonize Ag Supply Chain](#)
- [Summit Carbon Solutions, NPN ink carbon capture deal for the agricultural industry | News | gasworld](#)
- [Summit Carbon Solutions, NPN partner to decarbonize ag | EthanolProducer.com](#)

News Roundup

- [As carbon removal gains traction, economists imagine a new market to save the planet : Planet Money : NPR](#)
 - [Cresta, Lapis Energy to collaborate on carbon capture project | News | gasworld](#)
 - [Haldor Topsøe signs \\$50.9m loan with EIB for green hydrogen research - Offshore Energy \(offshore-energy.biz\)](#)
 - [SpaceX's Elon Musk is going into the carbon capture business | TheHill](#)
 - [ADM signs CO2 pipeline deal to capture, store ethanol plant emissions | Reuters](#)
 - [Biden's \\$3.5 Billion Green Investment on Carbon Capture Was the Easy Part - Bloomberg](#)
 - [E&E News | Article | Obama science aide joins Moniz-led group targeting CO2 removal \(politicopro.com\)](#)
 - ['Wicked hard': Biden, Congress struggle to curb U.S. emissions - E&E News \(eenews.net\)](#)
 - [DOE Announces \\$420 Million to Advance Clean Energy Breakthroughs at Energy Research Centers Across America | Department of Energy](#)
 - [Bill Gates' climate fund looks to funnel billions into carbon removal, green hydrogen, and more - The Verge](#)
 - [U.S. Energy Dept opens recruitment for 1,000 jobs in clean energy | Reuters](#)
 - [NOIA sees Gulf Coast's potential for global CCUS hub - Offshore Energy \(offshore-energy.biz\)](#)
 - [Details emerge about DOE, FERC grid plans for clean energy - E&E News \(eenews.net\)](#)
 - [Biden's \\$3.5 Billion Green Investment on Carbon Capture Was the Easy Part - Bloomberg](#)
 - [Report: US carbon emissions grew in 2021 \(phys.org\)](#)
 - [Daily on Energy: Carbon capture and storage defends itself from tough watchdog report | Washington Examiner](#)
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Global News

- [PETRONAS, Shell to co-op in carbon capture, storage | MENAFN.COM](#)
- [CCS 'red flag?' World's sole coal project hits snag - E&E News \(eenews.net\)](#)
- [Decarbonization will mean industrial restructurings on an unprecedented and massive scale, Canada better get ready for it - The Hill Times](#)
- [Japan, Indonesia to cooperate on hydrogen, ammonia and CCS | Reuters](#)
- [Malaysia's Petronas, Shell unit partner to explore carbon capture and storage | Reuters](#)
- [This is the technology that will create a new large-scale Norwegian industry \(modularphonesforum.com\)](#)
- [A new hub for CCS: the UK's abandoned oil wells \(offshore-technology.com\)](#)
- [Hacking threat to essential UK carbon capture technology highlighted \(pinsentmasons.com\)](#)
- [McDermott, CSIRO Team Up to Advance Carbon Capture Technologies | Texas News | inforney.com](#)

- [Alberta earmarks \\$30-million for carbon capture projects so technology is 'ready to go' ahead of federal tax credit - The Globe and Mail](#)
 - [Western Canada Leads The Way With Carbon Capture Utilization & Storage - Energy and Natural Resources - Canada \(mondaq.com\)](#)
 - [\\$30 million to accelerate carbon capture projects in \(globenewswire.com\)](#)
 - [CALF-20: A carbon capture success story - Advanced Science News](#)
 - [West coast carbon capture project aims to sink emissions in ocean floor and turn them to stone | iNFOnews | Thompson-Okanagan's News Source \(infotel.ca\)](#)
 - [Hydrogen Blending Project Now Operational, Reducing Carbon Footprint of Natural Gas Delivered by Enbridge Gas \(yahoo.com\)](#)
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New podcasts, reports, statements & blogs

- [Wood Mackenzie: Asia Pacific onshore wind costs rose in 2021 | Windpower Monthly](#)
 - [Graphene, the definitive weapon against global warming? – CVBJ](#)
 - [How to incorporate direct air capture into urban design \(fastcompany.com\)](#)
 - [Natural Gas Power Plants with Integrated Carbonate Fuel Cells \(azom.com\)](#)
 - [Decarbonization and Electrification Set to Accelerate Hydrogen Electrolyzer Market Growth, as Market Players Focus on Sustainable Hydrogen Production, Says FMI – Market Research Blog](#)
 - [Catalyst podcast: Inside the Department of Energy's... | Canary Media](#)
 - [Overcoming a bottleneck in carbon dioxide conversion | MIT News | Massachusetts Institute of Technology](#)
 - [Unlocking a New Wave of Carbon Capture and Storage Projects – ClearPath](#)
 - [FACT SHEET: Biden-Harris Administration Races to Deploy Clean Energy that Creates Jobs and Lowers Costs | The White House](#)
 - [Surging electricity demand is putting power systems under strain around the world - News - IEA](#)
 - [Jigar Shah on DOE's big new loan for a hydrogen plant... | Canary Media](#)
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News in the States

California

- [California governor reveals CA Blueprint budget \(ksby.com\)](#)
- [PG&E Helps Advance Accessibility to Renewable Natural Gas Sources for California Customers | News | bakersfield.com](#)

Colorado

- [Carbon capture isn't ready for prime time, Colorado's energy chief says | News | denvergazette.com](#)

Illinois

- Wolf Carbon Solutions, ADM Announce Partnership to Advance Decarbonization of Ethanol Production | Wire | [chronicle-tribune.com](#)
- UPDATE 1-ADM announces plan to build carbon dioxide pipeline | Successful Farming ([agriculture.com](#))
- Carbon dioxide pipeline backers plan public meetings as group expresses safety concerns ([myjournalcourier.com](#))
- Pipeline company holds meeting in Jacksonville ([myjournalcourier.com](#))
- Illinois could host proposed pipeline to offset biorefinery carbon emissions | Business | [pantagraph.com](#)

Iowa

- Company official: Iowa CO2 pipeline should be commercially viable ([desmoinesregister.com](#))
- Pipeline company officials address Hancock County supervisors' concerns | News | [globegazette.com](#)
- Linn County Supervisors oppose use of eminent domain for CO2 pipelines | The Gazette
- Representative drafting law to apply to Iowa carbon pipeline projects - Radio Iowa
- ADM wants to build a carbon capture pipeline across Iowa ([desmoinesregister.com](#))
- CCM | Wolf Carbon Solutions and ADM partner to Construct Iowa Pipeline | [CarbonCaptureMagazine.com](#)
- Third carbon capture pipeline proposed in Iowa - Energy News Network
- Kim Reynolds Iowa governor address renews discussion over carbon capture pipelines | [desmoinesregister.com](#)
- ADM to partner on carbon-capture pipeline that would run through Cedar Rapids ([kcrg.com](#))
- Woodbury County leaders vote to send letter opposing carbon capture pipeline ([ktiv.com](#))

Kansas

- As spending bill stalls, Biden climate goals remain elusive | The Kansas City Star

Maryland

- E&E News | Article | Md. lawmakers put climate on agenda as they address surplus ([politicopro.com](#))

Minnesota

- Minnesota regulators OK sale of power line tied to North Dakota's largest coal plant | Bemidji Pioneer
- Minnesota PUC approves controversial power line transfer linked to N.D. coal plant – Twin Cities

New Mexico

- Lucid Advancing CCS Project for Permian Delaware Natural Gas Processing Complex - Natural Gas Intelligence
- 2nd largest U.S. oil state eyes net-zero emissions - E&E News ([eenews.net](#))

New York

- New York: Renewable hydrogen hub? - E&E News ([eenews.net](#))

North Carolina

- [N.C. governor launches climate plan with ambitious EJ goals - E&E News \(eenews.net\)](#)
- [NC governor expands emission goals, seeks environment equity | AP News](#)

North Dakota

- [Hennen: Ways to strengthen North Dakota's energy production | The Dickinson Press](#)
- [Multi-state carbon pipeline adds Grand Forks, ND, ammonia plant to plans | AgweekPartnership Will Dispose of Ammonia Plant's Emissions | North Dakota News | US News](#)

Pennsylvania

- [Gov. Tom Wolf vetoes attempt to back out of RGGI - Pittsburgh Business Times \(bizjournals.com\)](#)

South Dakota

- [Exclusive Interview with Chris Hill from Summit Carbon Solutions on New Potential Pipeline | Local News | mykxlg.com](#)
- [Carbon dioxide pipeline is key for South Dakota ethanol \(aberdeennews.com\)](#)
- [Co2 Pipeline Company to Host Informational Meetings This Week – WLDS](#)

Tennessee

- [Knoxville startup makes prized carbon fibers from TVA carbon dioxide emissions | Chattanooga Times Free Press](#)

Texas

- [CEO Darius Adamczyk on where Honeywell is headed in 2022 as Covid remains in picture - Charlotte Business Journal \(bizjournals.com\)](#)
- [Opinion: Carbon ships? Path to net-zero may take an overlooked approach by sea. \(houstonchronicle.com\)](#)
- [Houston-based HIF USA may put a \\$4B e-fuels plant outside Bay City \(houstonchronicle.com\)](#)
- [Penwell Nacero plant still on schedule \(cbs7.com\)](#)
- [Tomlinson: Texas needs to move faster to become clean, green hydrogen hub \(houstonchronicle.com\)](#)
- [Honeywell bets on UT carbon-capture technology \(houstonchronicle.com\)](#)
- [Hydrogen -- 'Fuel of the future' - Albuquerque Journal \(abqjournal.com\)](#)

Virginia

- [Youngkin can't pull Virginia out of carbon cap initiative through executive action, outgoing AG Herring says \(yahoo.com\)](#)

Wyoming

- [Wyoming funds carbon capture research in hopes of preserving its coal industry | Environment | denvergazette.com](#)
- [Report: Wyoming oil and gas outlook positive heading into 2022 | County 17](#)
- [The CarbonSAFE Project in Campbell County hopes to provide a future for coal | Wyoming Public Media](#)

Upcoming events

January 14 – 16

2022 Global Energy Forum | Atlantic Council
Carbon Capture Storage and Utilization Webinar | ESA Space Solutions

January 18

The Road to CCS Project Permitting – Operators’ Experiences with Risk Management During the Permitting Process Webinar | IEAGHG

January 19

Environmental Justice: Research and Community Partnerships | Resources for the Future (RFF) and Urban Institute

January 20

18th Annual State of the Energy Industry Forum | USEA | United States Energy Association

January 21

CCS Technical Workshop 2022 : From Research and Development to Deployment | RITE

January 27

Hydrogen and the Low Carbon Economy | NETL RWF Energy 101

January 28 - 29

International Conference on Carbon Capture Technologies and Pollution Management ICCCTPM in Dubai, United Arab Emirates | World Academy of Science, Engineering and Technology

February 8 - 11

Energy Policy Outlook Conference 2022 | NASEO

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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