



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

December 16, 2022

DOE Announces More Than \$1 Billion in Funds to Deploy Regional Direct Air Capture Hubs

On Tuesday, the Department of Energy (DOE) announced more than \$1 billion in funding of \$3.5 billion made available by the Bipartisan Infrastructure Law to enable the development of four regional direct air capture (DAC) hubs. With the announcement, DOE has now made available nearly \$9 billion of the more than \$12 billion authorized by the Bipartisan Infrastructure Law for the deployment and scaling of carbon management technologies, which includes carbon capture, removal, transport, utilization, and storage.

Read DOE's press release [here](#) and view the Carbon Capture Coalition's full statement on the announcement [here](#).

DOE Announces up to \$230 million in Carbon Management Funding

In addition to funding for the DAC Hubs, DOE announced on Tuesday the launch of three programs that will help build a commercially viable, just, and responsible carbon dioxide removal industry in the United States. The programs will help accelerate private-sector investment, spur advancements in monitoring and reporting practices for carbon management technologies, and provide grants to state and local governments to procure and use products developed from captured carbon emissions. In tandem with strong actions to lower carbon emissions, large-scale deployment of carbon management technologies is crucial to addressing the climate crisis and meeting President Biden's goal of a net-zero greenhouse gas emissions economy by 2050, which will both protect existing industrial jobs and create new ones.

DOE announced the following new efforts from the Bipartisan Infrastructure Law:

- *Direct Air Capture Commercial and Pre-Commercial Prize* – DOE's Office of Fossil Energy and Carbon Management (FECM) announced the Direct Air Capture Prize for support and prize awards totaling \$115 million to promote diverse approaches to direct air capture. The Direct Air Capture Pre-Commercial Prize provides up to \$15 million in prizes to incubate and accelerate research and development of breakthrough direct air capture technologies. The Direct Air Capture Commercial Prize provides up to \$100

million in prizes to qualified direct air capture facilities for capturing CO₂ from the atmosphere.

Read the full Direct Air Capture Prize Competitions announcement [here](#).

- *Carbon Utilization Procurement Grants* – FECM will manage the Carbon Utilization Procurement Grants Program, which will provide grants to states, local governments, and public utilities to support the commercialization of technologies that reduce carbon emissions while also procuring and using commercial or industrial products developed from captured carbon emissions.

Read the Notice of Intent [here](#).

- *Bipartisan Infrastructure Law Technology Commercialization Fund (TCF)* – DOE's Office of Technology Transitions (OTT), in partnership with FECM, will issue a Lab Call to accelerate commercialization of carbon dioxide removal technologies, including direct air capture, by advancing measurement, reporting, and verification best practices and capabilities. OTT anticipates awarding \$15 million to projects led by DOE National Laboratories, plants, and sites, and supported by diverse industry partnerships spanning the emerging carbon dioxide removal sector. Visit OTT's TCF Lab Call webpage [here](#).

DOE Announces Up to \$20 Million Available for Regional Projects to Accelerate U.S. Carbon Capture, Transport, Conversion, and Storage Technology Deployment

The U.S. Department of Energy's (DOE) Office of Fossil Energy and Carbon Management (FECM) announced on Monday \$20 million in funding for projects that will improve stakeholder access to region-specific information and technical assistance regarding the commercial deployment of carbon capture, transport, conversion, and storage technologies across the United States.

FECM currently supports four regional projects that have already provided technical assistance on secure geologic carbon storage throughout the United States. This new funding opportunity announcement (FOA) will augment existing efforts by developing new technical assistance and public engagement projects with a more local geographic focus. The projects will provide stakeholders with crucial resources and information necessary to facilitate the regional deployment of large-scale geologic storage facilities or carbon management hubs that could store up to hundreds of millions of metric tons of CO₂ at an injection rate of more than 5 million metric tons per year. The FOA also provides the opportunity for DOE to work with State Geologic Surveys and related organizations with unique technical capabilities to identify the potential for these large-scale projects within promising geologic basins in their respective states.

Read more details of this FOA [here](#)

Industrial Innovation Initiative Releases State Best Practices Guide for Decarbonizing Industry

Today, the Industrial Innovation Initiative released the [State Best Practices Guide for Decarbonizing Industry](#), a new resource that matches state-level policy recommendations with real-world examples of state legislation in use or under consideration across the United States. This unique pairing will aid state decision makers and advocates seeking to cut emissions from key industrial sectors by providing a starting point for policy development and state planning.

The Guide recommends several approaches, which include the following:

- State Planning
- Labor and Workforce Development
- Carbon Management
- Clean Hydrogen
- Low-Carbon Procurement
- Electrification and Efficiency

Created with input from state officials, industry, labor, and environmental stakeholders, this guide emphasizes the critical role states will play in decarbonizing the US industrial sector. Learn more about how states can lead this work with the Initiative's [blog post announcement here](#).

West Virginia Natural Gas Plant to Include Carbon Capture

The Competitive Power Ventures (CPV) recently announced its plans to develop a 3-billion-dollar natural gas facility in West Virginia. The project, Shay Energy Center will be located in Doddridge County and has The facility is estimated to use carbon capture to help reduce its carbon dioxide emissions, create over 2000 jobs, and power around 2 million homes.

The project is anticipated to be commercially ready later in 2022.

Related news:

- [CPV plans \\$3bn power station with carbon capture in West Virginia \(gasworld.com\)](#)
- [New CPV Gas-Fired Power Plant Will Include Carbon Capture \(powermag.com\)](#)
- [Natural Gas Power Plant, Carbon Capture Project Coming to Doddridge County | News, Sports, Jobs - The Intelligencer](#)

News Roundup

- [Denbury expands CO2 sequestration network along US Gulf Coast | Oil & Gas Journal \(ogj.com\)](#)
- [NETL Carbon Capture Team Visits Renowned National Facility Where Technologies Are Put to the Test | netl.doe.gov](#)
- [US \\$4bn carbon removal push bets big on direct air capture 'to tackle pollution legacy' | Recharge \(rechargenews.com\)](#)
- [Denbury Captures New Sites in Louisiana and Mississippi \(naturalgasintel.com\)](#)

- [How the IRA's hydrogen tax credit could set off a carbon bomb | Grist](#)
 - [U.S. Energy Department to spend \\$3.7 billion on carbon removal | Reuters](#)
 - [DOE releases record funding for removing carbon - E&E News \(eenews.net\)](#)
 - [Senate to vote on Manchin's permitting overhaul - E&E News \(eenews.net\)](#)
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Global News

- [MHIENG Awarded Pre-FEED Contract for Carbon Capture Plant at a Cement Production Facility in UK - EIN Presswire \(einnews.com\)](#)
 - [ONGC, Shell enter carbon capture MoU | Offshore \(offshore-mag.com\)](#)
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New podcasts, reports, statements & blogs

- [Innovations in Wastewater Treatment, Solid Waste Management and Carbon Capture, Utilization & Storage: Featuring Analysis of Organic Vermi-Composting Methods, Bio-Organic Liquid Flocculants & More - EIN Presswire \(einnews.com\)](#)
 - [Energy Cast podcast: Talking carbon capture future with NCCC \(power-eng.com\)](#)
 - [Rex reports profitable Q3, announces progress with CCS project | EthanolProducer.com](#)
 - [Manchin spurs US reversal on carbon capture funding in win for Big Oil - The Boston Globe](#)
 - [INTERVIEW: Time is Now to Consider Role of Direct Air Carbon Capture in Shipping Decarbonization Plans - Ship & Bunker \(shipandbunker.com\)](#)
 - [Podcast: Election Impacts on DOE Funding, Clean Tech Legislation and Energy Innovation | Insights | Holland & Knight \(hklaw.com\)](#)
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News in the States

California

- [California Can Pave the Way on Decarbonizing Cement | NRDC](#)
- [California to Offer \\$100M in Clean Hydrogen Incentives | RTO Insider](#)

Illinois

- [Carbon capture system provides carbon-negative ethylene production \(innovationnewsnetwork.com\)](#)
- [Carbon capture facility to bring new jobs to Decatur | | wandtv.com](#)
- [Officials share why Decatur is prime location for carbon sequestration projects \(herald-review.com\)](#)

Iowa

- [Summit Carbon Solutions pipeline hearings in Iowa still months away - Agweek | #1 source for agriculture news, farming, markets](#)
- [Summit Says Carbon Pipeline Voluntary Easements Surpass 82% in Floyd County – KCHA News](#)
- [Summit Carbon Solutions has most of its needed easements in Greene County for carbon pipeline - Greene County News Online](#)
- [Letter: Carbon capture needed for market | Opinion | nwestiowa.com](#)

Louisiana

- [Denbury announces new CO2 sequestration site in Louisiana - Chemical Engineering | Page 1 \(chemengonline.com\)](#)
- [Denbury Announces New CO2 Sequestration Site in SW Louisiana | Business Wire](#)
- [Locals continue to oppose Lake Maurepas carbon capture site | Environment | theadvocate.com](#)
- [Strategic Biofuels kicks off Louisiana Green Fuels project - Offshore Energy \(offshore-energy.biz\)](#)

Minnesota

- [Why large hydro, nuclear and carbon capture should be included in Minnesota's carbon-free energy mix | MinnPost](#)

Mississippi

- [Denbury and Weyerhaeuser Agree On CO2 Sequestration Site in Mississippi \(carbonherald.com\)](#)

New York

- [New York CAC Debates Inclusion of Blue Hydrogen, Union Jobs in Plan | RTO Insider](#)
- [Local CCS System Captures 60% of Emissions at New York High Rise \(theenergymix.com\)](#)
- [Long Island Is Becoming a Clean Energy Hub To Replicate Across the Northeast and Beyond - The Good Men Project](#)

Ohio

- [Ohio lawmakers set to move on controversial oil and gas bill | Energy News Network](#)

Pennsylvania

- [Decarbonization Program Would Eliminate Most Emissions in Southwest Pennsylvania by 2050, a New Study Finds - Inside Climate News](#)

South Dakota

- [Summit Carbon files lawsuits against Spink, McPherson counties \(aberdeennews.com\)](#)
- [Attorneys tussle over land survey provisions for pipelines - Iowa Capital Dispatch](#)

Texas

- [Energy Titans Collaborate With UT To Solve Most Pressing Global Energy Challenges - UT News \(utexas.edu\)](#)
- [HIF awards Feed contract for Texas efuels plant \(pemedianetwork.com\)](#)

Wyoming

- [Wyoming leading the way on CCUS technology, more investment needed | Letters To Editor | wyomingnews.com](#)
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Upcoming events

December 22

- [CDR Academy: Technological Solutions](#)

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](#).