



## REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

# UPDATE

January 21, 2022

## Carbon Management Provisions in Infrastructure Investment and Jobs Act Will Support Technologies' Deployment

Carbon Management provisions included in the Infrastructure Investment and Jobs Act will prove critical for the economywide deployment of carbon management technologies.

Although these provisions provide essential support for projects, pending bipartisan legislation, specifically, proposed enhancements to the 45Q tax credit in the Build Back Better Act, is necessary to deploy carbon management technologies at the scale necessary to reach midcentury climate goals.

Together, provisions in the Infrastructure Investment and Jobs Act and Build Back Better Act would result in an estimated 13-fold increase in carbon management capacity and annual CO<sub>2</sub> emissions reductions of 210-250 million metric tons by 2035.

More specific information about the provisions contained in the Infrastructure Investment and Jobs Act can be found in the Carbon Capture Coalition's recent blog post:

- [Recently-enacted Infrastructure Investment and Jobs Act to Bolster Economywide Deployment of Carbon Management Technologies upon Full Implementation](#)

## Great Plains Institute to Release Virtual Carbon and Hydrogen Hubs Atlas

The [Great Plains Institute](#) is hosting a virtual event on February 1, 2022, from 2:00 to 3:00 pm ET to mark the launch of their new publication, "***An Atlas of Carbon and Hydrogen Hubs for United States Decarbonization.***"

International climate modeling scenarios make it evident that both hydrogen and carbon management are necessary to achieve midcentury climate goals. This atlas is a novel resource identifying areas of the United States with a localized capacity to help the nation reach its climate goals by accelerating emissions reductions and carbon removal through focused coordination, deployment, and policy.

We are delighted to have the following analytical and policy experts provide their key takeaways from the analysis:

- Dane McFarlane, Director of Research, Great Plains Institute
- Elizabeth Abrahamson, Research Analyst, Great Plains Institute
- Jessie Stolark, Public Policy & Member Relations Manager, Carbon Capture Coalition

Register for the event [here](#).

## Great Plains Institute to Host Informational Webinar on Department of Energy Office of Clean Energy Demonstrations

The [Carbon Capture Coalition](#), [Regional Carbon Capture Deployment Initiative](#) and [Industrial Innovation Initiative](#) are hosting a webinar about the newly established [Department of Energy Office of Clean Energy Demonstrations](#).

Enacted as part of the Infrastructure Investments and Jobs Act, the Office is expected to select and manage many large-scale demonstration and pilot projects funded by the Department of Energy. Created and funded by the Infrastructure Law, the Office has approximately \$3.5 billion in funds for carbon capture projects and \$8 billion in funding for clean hydrogen demonstrations over the next five years. The Office is also expected to be called upon to advise other units of DOE that are managing demonstration and pilot-scale projects across the Department's technology portfolio.

This webinar will highlight the recommendations of a multi-stakeholder group coordinated by the [Information Technology and Innovation Foundation \(ITIF\)](#) to the Department of Energy on the establishment of the Office and allow participants to actively explore how the Department can effectively manage carbon and hydrogen demonstration dollars.

Speakers for this event are:

- David Hart, Director, Center for Clean Energy Innovation, ITIF
- Jetta Wong, Senior Fellow, Center for Clean Energy Innovation, ITIF

Register for the webinar [here](#).

## Michigan Releases Plan for Carbon Neutrality by 2050

Michigan Governor Gretchen Whitmer released a draft of the [MI Healthy Climate Plan](#) on January 14. The plan includes strategies for Michigan to achieve 52% reductions by 2030 and 100% economy-wide carbon neutrality by 2050.

EGLE (Michigan Department of Environment, Great Lakes, and Energy) staff and the Council on Climate Solutions will host two online public listening sessions, one on [January 26](#) from 10 a.m.-12 p.m. ET and one on [February 8](#) from 6-8 p.m. ET. Members of the public can also email comments or suggestions to [EGLE-ClimateSolutions@Michigan.gov](mailto:EGLE-ClimateSolutions@Michigan.gov).

For more information about the plan click [here](#).

Additional Media Coverage:

- [Whitmer releases draft climate plan to make Michigan carbon neutral by 2050 \(detroitnews.com\)](#)
- [Draft Michigan Climate Plan Outlines Carbon Neutrality Recommendations For The State | NRDC](#)
- [Michigan governor releases plan draft for carbon neutrality \(myjournalcourier.com\)](#)

## **New Wyoming Pipeline Corridor Initiative Mapping Application Offers Information on Carbon Management in the State**

On Jan. 14 the University of Wyoming's Enhanced Oil Recovery Institute (EORI) published the Wyoming Pipeline Corridor Initiative (WPCI) [mapping application](#). The application contains information on the state's carbon dioxide industrial facilities, pipeline routes and corridors, and CO<sub>2</sub> usage and storage sites.

The release of the application coincides with the Wyoming State Geological Survey's [report](#) on Oil and Natural Gas Resources in Wyoming

- [UW's EORI Publishes Interactive Mapping App for Wyoming Pipeline Corridor Initiative | News | University of Wyoming \(uwyo.edu\)](#)
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## **News Roundup**

- [Exxon vows to have net-zero carbon emissions from operations by 2050 | Reuters](#)
- [EPA approves Lucid Energy CCS project, the largest in the Permian basin | Upstream Online](#)
- [GAO report highlights success of ADM's ethanol CCS project | EthanolProducer.com](#)
- [Governors turn to budgets to guard against climate change | AP News](#)
- [RESCHEDULED: E&C Announces Legislative Hearing on Pipeline Reliability Bill | Democrats, Energy and Commerce Committee \(house.gov\)](#)
- [INTERVIEW: New CCS, hydrogen firm Lapis Energy gains private equity funding for low-carbon projects | S&P Global Platts \(spglobal.com\)](#)
- [JLE INDUSTRIES ANNOUNCES AGREEMENT WITH REMORA TO TRANSFORM FLATBED TRUCKS INTO CARBON REMOVAL DEVICES \(prnewswire.com\)](#)
- [EIP Launches New Fund to Scale the Boldest Ideas in Climate Tech | Business Wire](#)
- [No Net Zero Without Carbon Capture | RTO Insider](#)
- [E&E News | Article | How FERC, courts may change pipeline industry in 2022 \(politicopro.com\)](#)
- [These machines scrub greenhouse gases from the air – an inventor of direct air capture technology shows how it works \(theconversation.com\)](#)
- [Hyzon Motors to collaborate with Transform Materials on renewable hydrogen production - Green Car Congress](#)

- [Democrats want to break up BBB. What does that mean? - E&E News \(eenews.net\)](#)
  - [Energy CEOs: Here's how to overhaul DOE to slash CO2 - E&E News \(eenews.net\)](#)
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## Global News

- [How to transform Canada's heavy industry into a net-zero powerhouse | Corporate Knights](#)
- [Carbon capture technology is Alberta's 'number one priority,' energy minister says - Verve times](#)
- [Scottish Government invests in carbon capture cluster - News - The Chemical Engineer](#)
- [Transocean Gets Drilling Work On Carbon Capture Wells | Rigzone](#)
- [Net Zero: Alberta planning several carbon-storage hubs - iPolitics](#)
- [Carbon storage, H2 key to China net-zero goal: Shell | Argus Media](#)
- [Transocean Rig to Drill Injection Wells for Norway's Northern Lights Carbon Capture and Storage Project \(gcaptain.com\)](#)
- [Enhance Energy unveils plans for carbon sequestration hub in Alberta - Energy Live News](#)
- [IEA report on Canada welcomes SMR developments - Nuclear Engineering International \(neimagazine.com\)](#)
- [We're witnessing the birth of an industry amid race for Alberta carbon capture developments | Financial Post](#)
- [Transocean Rig to Drill Injection Wells for Norway's Northern Lights Carbon Capture and Storage Project \(gcaptain.com\)](#)
- [PGS books carbon capture and storage related seismic work with BP and Equinor | Upstream Online](#)
- [A New Carbon Capture Method Turns CO2 Into Solid Carbon 'In an Instant' \(interestingengineering.com\)](#)
- [Alba and Mitsubishi Heavy Industries Ink MoU for Carbon Capture \(aluminiumtoday.com\)](#)
- [Canada needs energy policy clarity around carbon capture to get projects off the ground | Financial Post](#)

## New podcasts, reports, statements & blogs

- [New IEAGHG report: Global Assessment of DACCS Costs, Scale and Potential - BLOG](#)
  - [New IEAGHG Technical Report: Criteria for Depleted Reservoirs to be Developed for CO2 Storage - BLOG](#)
  - [Modelling suggests afterburner required for CO2 capture on carrier ship | News | Motorship](#)
  - [Safer carbon capture and storage - Tech Explorist](#)
  - [Innovation Uptake: The Final Frontier for Energy Policy | RealClearEnergy](#)
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## News in the States

## California

- [UC awards \\$20M in research grants for decarbonization, pandemic preparedness and materials engineering | University of California](#)

## Colorado

- [A hydrological simulation dataset of the Upper Colorado River Basin from 1983 to 2019 | Scientific Data \(nature.com\)](#)

## Illinois

- [Illinois could host proposed pipeline to offset biorefinery carbon emissions | News | effinghamdailynews.com](#)
- [Projects would harvest CO2 for transport in pipelines across five states | KELOLAND.com](#)

## Indiana

- [Indiana panel advances bill giving broad liability protection to energy company - The Indiana Lawyer](#)
- [CO2 storage bill would make Indiana liable for long-term risks \(wfyi.org\)](#)
- [House Natural Resources Committee Advances Pair of Carbon Capture and Sequestration Bills | IER Indiana Environmental Reporter](#)

## Iowa

- [Reynolds says state should invest in carbon capture research - Radio Iowa](#)
- [Navigator drops Clinton County from pipeline plans | Local News | clintonherald.com](#)
- [How far would Iowa pipeline projects go toward U.S. climate change goals? | The Gazette](#)
- [Iowa's carbon pipeline race meets growing opposition - Axios Des Moines](#)

## Louisiana

- [\\$15M grant supports development of proposed Louisiana biorefinery | BiodieselMagazine.com](#)
- [Port of Columbia Approved for \\$15 Million Grant in Support of Strategic Biofuels Project | Business Wire](#)

## Michigan

- [Whitmer releases draft climate plan to make Michigan carbon neutral by 2050 \(detroitnews.com\)](#)
- [E&E News | Article | Mich. releases plan calling for shutdown of all coal plants \(politicopro.com\)](#)
- [Draft Michigan Climate Plan Outlines Carbon Neutrality Recommendations For The State | NRDC](#)
- [Michigan governor releases plan draft for carbon neutrality \(myjournalcourier.com\)](#)

## Minnesota

- [Wind power helps Minnesota co-op avoid rate increases - Energy News Network](#)

## New Mexico

- [New Mexico front and center in nationwide debate over hydrogen - Albuquerque Journal \(abqjournal.com\)](#)
- [Striving toward net zero, New Mexico grapples with role of hydrogen - New Mexico In Depth \(nmindepth.com\)](#)
- [\\$600M project puts NM town at center of hydrogen debate - Albuquerque Journal \(abqjournal.com\)](#)

#### **North Dakota**

- [Sale of North Dakota's Largest Coal Plant Is Almost Complete. Then Will Come the Hard Part - Inside Climate News](#)
- [North Dakota's largest wind farm slated for coal county with anti-renewables rules - InForum](#)
- [Minnkota receives CO2 storage permit from NDIC](#)

#### **Oklahoma**

- [Hydrogen revolution is just getting started | Features | gasworld](#)

#### **Pennsylvania**

- [North American Midstream Sector Advancing Greener Fuels while Meeting Growing Natural Gas Needs - Natural Gas Intelligence](#)
- [Other Stories of Interest: Tue, Jan 18, 2022 | Marcellus Drilling News](#)

#### **Texas**

- [Shell, others join coalition supporting Houston carbon capture hub \(houstonchronicle.com\)](#)
- [Industry Support for Large-Scale Carbon Capture and Storage Continues to Gain Momentum in Houston \(yahoo.com\)](#)
- [Industry Support for Large-Scale Carbon Capture and Storage Continues to Gain Momentum in Houston | State | elpasoinc.com](#)
- [E&E News | Article | 3 major energy companies back Texas CCS hub \(politicopro.com\)](#)

#### **Virginia**

- [Va. governor-elect vows to exit cap-and-trade program - E&E News \(eenews.net\)](#)

#### **Wyoming**

- [UW's EORI Publishes Interactive Mapping App for Wyoming Pipeline Corridor Initiative | News | University of Wyoming \(uwyo.edu\)](#)
- [CO2 storage project in America's coal country one step closer to becoming a reality - MINING.COM](#)
- [Carbon capture, hydrogen projects gain funding from Wyoming agency - Power Engineering \(power-eng.com\)](#)

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## **Upcoming events**

**January 21**

- [CCS Technical Workshop 2022: From Research and Development to Deployment | RITE](#)

#### January 27

- [Hydrogen and the Low Carbon Economy | NETL RWFI 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 1

- [Carbon and Hydrogen Hubs Atlas Release – Webinar Event | Great Plains Institute](#)

#### February 7

- [Webinar on the Office of Clean Energy Demonstrations: "What is the Office of Clean Energy Demonstrations | Regional Carbon Capture Deployment Initiative, Industrial Innovation Initiative, and Carbon Capture Coalition](#)

#### February 8 - 11

- [Energy Policy Outlook Conference 2022 | NASEO](#)

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*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](mailto:ETHomley@gpisd.net) Want to read more carbon management updates, studies, and fact sheets? Visit us at [Carbon Capture Ready](#).*

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