



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

December 23, 2022

*Programmatic note: In observance of the Winter Holiday season and New Years', there will not be a RDI Update for Friday, December 30. Weekly updates will return to your inbox as scheduled on Friday, January 6.

EPA Outlines Class VI recommendations in Memo to State Governors

In a recent [memo](#) to state governors, EPA shared recommendations for states exploring Class VI primacy. Broadly, EPA explained how carbon management technologies, specifically carbon dioxide (CO₂) storage are needed to reduce carbon dioxide emissions and how states can uniquely support carbon management projects while prioritizing communities.

The EPA can grant [primary enforcement authority](#)—referred to as primacy—to individual states, territories, or tribes, which delegates authority to administer certain well classes in the UIC program in accordance with federal standards. Importantly, states, territories, or tribes can be approved for this delegation of primacy only when their regulations meet or exceed the federal UIC requirements.

EPA will look for Class VI applications that mitigate impacts to communities and protect sources of drinking water, suggesting that states should support communities through

- Implementing an Inclusive Public Participation Process
- Considering Environmental Justice Impacts on Communities.
- Enforcing Class VI Regulatory Protections.
- Incorporating Other Mitigation Measures.

The EPA strongly recommends that states considering Class VI primacy meet with EPA staff to gain a better understanding of the primacy process.

Passage of Bipartisan Omnibus Spending Bill Signals Strong Support for DOE Carbon Management Programs

Following Senate-passage on Thursday afternoon, the House has just cleared the bipartisan fiscal year 2023 spending package. The omnibus text makes incremental but essential increases to programmatic funding at the Department of Energy that comprise fundamental

federal support for carbon management technologies and are critical policy levers for realizing economies of scale. Additionally, the bill includes new report language directing the Environmental Protection Agency to brief pertinent congressional committees on efforts the Agency is undertaking to enhance the Class VI permitting process, specifically; permitting tools, public engagement, and outreach, and anticipated full-time staffing for the Class VI program.

This report language, along with new funding to support education and training for Class VI program staff, will be critical to ensure adequate permitting capacity at both the federal and state level that is necessary for economywide deployment of carbon management projects at the pace and scale required to meet both net-zero emissions and midcentury climate goals. Robust and efficient permitting of CO₂ storage is central to ensuring that the significant federal investments in these technologies contained in the transformational legislation enacted over the course of the 117th Congress achieve their full climate potential.

Read the Carbon Capture Coalition's full statement as well as a breakdown of funding increases [here](#).

News Roundup

- Pacific NW 'hydrogen hub' pitch to federal government treated as top secret | Northwest News Network (nwnewsnetwork.org)
- International partnership set up to deliver CCS project in Gulf of Mexico, Offshore Energy, December 22
- Carbon pipeline project spanning five states moving forward | South Dakota | thecentersquare.com
- DOE issues notice of intent for funding in support of Hydrogen Shot - Green Car Congress
- JPMorgan Sets 2030 Emissions Targets for Polluting Industries - ESG News
- How the \$1.7T omnibus affects energy, from CCS to hydrogen, E&E News, December 21
- DOE details how it will dole out DAC dollars, Chemical & Engineering News, December 19
- Manchin Spurs US Reversal On Carbon Capture Funding | Rigzone
- DOE has a big opportunity to decarbonize industry. Here's how it can leverage a new program. (edf.org)
- \$1.2B DOE Funding to Promote Development of Regional Direct Air Capture Hubs - Lexology
- DOE Clarifies EOR Pathway for Carbon Capture Funding | Energy Intelligence
- Denbury Expects Carbon Capture Business To Break Even In 2026, Carbon Herald, December 19
- Energy outlook 2023: The growth in renewables, batteries, CCS and hydrogen infrastructure, ING, December 20
- Shopify orders up latest carbon removal deals, BusinessGreen, December 21
- Chevron Leads Latest Fundraising for Svante to Advance Carbon Capture Technology, Natural Gas Intelligence, December 21

Global News

- Climeworks Announces New Milestones Of Mammoth DAC Plant, Carbon Herald, December 19
 - Norway and France forge ties on carbon capture and storage, Offshore Energy, December 20
 - Denmark set for major carbon capture and storage expansion led by Wintershall Dea - EIN Presswire (einnews.com)
 - RWE and Harbour Energy shake hands to pursue carbon capture and storage - Offshore Energy (offshore-energy.biz)
 - Joint venture set up for Italy's first carbon capture and storage project - Offshore Energy (offshore-energy.biz)
 - Norway and France forge ties on carbon capture and storage - Offshore Energy (offshore-energy.biz)
 - Japan's Mitsui OSK, Kansai Electric sign MoU on carbon capture and storage | Reuters
 - Habeck plans underground CO2 storage in Germany - Globe Echo
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New podcasts, reports, statements & blogs

- New Device Could Help Sense CO2 Sequestration Leaks, Carbon Herald, December 19
 - *GlobalData: CCS will be instrumental in reducing global carbon emissions*, Hydrocarbon Engineering, December 21
 - *Study: Amendments to insurance and international environmental laws needed for carbon capture, use and storage*, Phys.org, December 20
 - *Tracking the Energy Transition: A Home for Carbon, Hydrogen on the Move, and New Life for Old Wells*, Journal of Petroleum Technology, December 21
 - *Carbon Dioxide Removal and Certification – What is it and why is it needed?*, Bellona, December 21
 - 2022 Anaerobic Membrane Bioreactors, Biogas Purification and Carbon Capture & Mineralization Growth Opportunities - ResearchAndMarkets.com | Business Wire
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News in the States

Alaska

- Alaska, source of carbon-emitting fossil fuels, aims to raise money by storing carbon - Alaska Beacon
- Mike Dunleavy: Alaska's map to clean hydrogen leadership - Must Read Alaska
- State of Alaska's Map to Clean Hydrogen Leadership | RealClearMarkets

Arizona

- Dimensional Energy Launches CO₂ Utilization Plant In Arizona (carbonherald.com)

California

- *Calif. regulators pass plan to zero out carbon emissions, E&E News, December 16*
- Plan To Test Hydrogen Energy at UC Irvine, Other Spots, Stirs Controversy | Aviation Pros
- First Blue Hydrogen Project In California To Start In 2025 (carbonherald.com)

Delaware

- Senator Coons statement on passage of omnibus spending bill (senate.gov)

Indiana

- EPA Expresses Support for State-level Permitting for Carbon Capture and Sequestration Projects | Politics | nuvo.net

Iowa

- Summit Carbon Solutions pipeline hearings in Iowa still months away - InForum | Fargo, Moorhead and West Fargo news, weather and sports (thedickinsonpress.com)

Louisiana

- *Gov. Edwards defends carbon capture but calls for more transparency, Greater Baton Rouge Business Report, December 19*
- *Louisiana Governor: Carbon Capture Needed But Requires More Transparency , Carbon Herald, December 21*
- Denmark firm hired for 'blue' ammonia plant carbon capture | Business | theadvocate.com
- Lake Maurepas carbon capture project hearing sees backlash | Environment | theadvocate.com
- Carbon capture hub could be coming near Grand Isle | Business | theadvocate.com

Nebraska

- Commissioners Approve Tax Credit Purchase Agreement, Receive Road Use Agreement From Summit Carbon Solutions | WDN – Wayne Daily News – Wayne, Nebraska

New Jersey

- Hydrogen energy future quietly taking shape in NJ (pressofatlanticcity.com)
- Passage of low-carbon concrete bill praised by environmental groups | ROI-NJ

New Mexico

- New Mexico city ends bid to retrofit coal-fired power plant (beaumontenterprise.com)
- Coal-fired San Juan Generating Station on track to be demolished by the spring - Albuquerque Journal (abqjournal.com)

North Dakota

- Letter: North Dakota stands to benefit greatly from carbon capture - InForum | Fargo, Moorhead and West Fargo news, weather and sports

South Dakota

- South Dakota suggests delaying Summit Carbon pipeline hearings to September or later
- Agweek | #1 source for agriculture news, farming, markets
- Carbon pipeline project spanning five states moving forward | South Dakota | thecentersquare.com

Texas

- Texas group behind \$7.5 billion 'blue' ammonia plant hires Denmark firm for carbon capture, The Advocate, December 19
- Ascension Clean Energy Hires Topsoe For \$7.5 Billion Clean Hydrogen-Ammonia Facility, Carbon Herald, December 20
- Gulf of Mexico Carbon Capture and Sequestration Partnership Hub Announces Development of One of the Largest CO₂ Offshore Storage Projects - Benzinga
- Gulf of Mexico Carbon Capture and Sequestration Partnership (globenewswire.com)

Wyoming

- Wyoming, JCOAL, And Kawasaki Heavy Industries To Partner On Carbon Capture Test Project (carbonherald.com)
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Upcoming events

January 18

- Wisconsin's Circular Bioeconomy – Carbon Management Workshop | Wisconsin Energy Institute

This is the second of [three workshops](#) exploring the development of a circular bioeconomy ecosystem in which renewable and waste resources are used as raw materials, substituting biomass-based and recycled carbon for fossil carbon in energy and products. Developing these bio-based production chains and businesses could create jobs, help decarbonize Wisconsin industries, and promote statewide rural economic development.

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](#)