

Notice of Intent No.: DE-FOA-0003476

DISCLAIMER: This “Notice of Intent to Issue” is for informational purposes only; the Department of Energy is not seeking comments on the information in this notice and applications are not being accepted at this time. Any information contained in this notice is subject to change.

**This is a Notice of Intent to Issue
Notice of Funding Opportunity (NOFO)
Carbon Storage Technology Operations & Research (CarbonSTORE)**

The Department of Energy (DOE) through the National Energy Technology Laboratory (NETL) intends to issue a Notice of Funding Opportunity (NOFO) seeking applications for financial assistance awards that would support the development of field laboratories for geologic carbon storage. The NOFO is anticipated to be issued in the first half of Fiscal Year 2025 and will be funded by the DOE Office of Fossil Energy and Carbon Management’s (FECM) Carbon Transport and Storage (CTS) Research and Development (R&D) program.

BACKGROUND

The carbon capture, utilization, and storage (CCUS) provisions of the Bipartisan Infrastructure Law (BIL) represent a historic investment to fund and deploy at commercial-scale the types of CCUS infrastructure needed to support U.S. decarbonization goals and to achieve net-zero CO₂ emissions economy-wide by 2050. Aligned with this unprecedented investment in CCUS deployment, DOE’s FECM envisions leveraging existing infrastructure at existing or potential geologic carbon storage sites that could offer opportunities to test, validate, and demonstrate emerging technologies at commercial-scale and across relevant geologic carbon storage conditions.

FECM anticipates soliciting proposals for carbon storage field laboratories in the first half of Fiscal Year 2025 under the *Carbon Storage Technology and Operations Research (CarbonSTORE)* solicitation.

These carbon storage field laboratories would facilitate rapid commercialization of emerging technologies. Prioritized technologies are anticipated to improve operational performance of storage facilities and reduce costs. These field laboratories could be located in a variety of geologic settings and be integrated with, or be proximal to, DOE-funded carbon storage sites or other non-government funded commercial carbon storage sites. DOE FECM would also consider analogue sites that have the characteristics of carbon storage sites, such as: field laboratories integrated with industrial acid gas injection sites, saltwater disposal wells, and CO₂-enhanced oil recovery sites that are either in transition to dedicated CO₂ storage or with near-term plans to transition.

The primary goal for the CarbonSTORE solicitation, if issued, is to establish carbon storage field laboratories where technology developers can field test, validate and demonstrate carbon storage technologies that should be accelerated into commercial practice. Priority research areas may include, but will not be limited to: CO₂ plume monitoring, other types of cost-effective monitoring using geochemical and geophysical processes, remediation and monitoring of wells, pore space utilization, and mineralization approaches.

In addition, FECM envisions that CarbonSTORE field laboratories would also facilitate enhanced data

gathering for new technology development, fast track emerging technology development, and provide real-world performance feedback for operational improvements and optimization.

DOE will **not** accept questions at this time regarding issuance of the potential NOFO. Details on how to submit questions and comments will be provided in the NOFO, if issued.

DISCLAIMER

This NOI is issued so that interested parties are aware of the DOE's intention to issue a NOFO in the near term. Any information contained in this NOI is subject to change.

No Full Applications are being accepted at this time.

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