

Carbon Transport & Storage Infrastructure Projects and Opportunities: Bipartisan Infrastructure Law (BIL)



FECM Carbon Management Research Project Review Meeting, August 28, 2023

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Bipartisan Infrastructure Law (BIL)

Provisions Managed by FECM Carbon Transport & Storage Program

- SEC. 40303 Carbon Capture FEED Studies for Transport Infrastructure: **\$100 million/5 years**
- SEC. 40304 Carbon Dioxide Transportation Infrastructure Finance and Innovation (CIFIA): **\$2.1 billion/5 years**; *Co-managed by FECM and LPO*
- SEC. 40305 Carbon Storage Validation and Testing: **\$2.5 billion/5 years**

Other Provisions Relevant to Transport and Storage

- SEC. 40306 Support for UIC Class VI permitting and state primacy efforts: **\$75 million**
- SEC. 40314 Regional clean hydrogen hubs: **\$8 billion**
- SEC. 40601 Orphan Well Site Plugging, Remediation, and Restoration: **\$4.7 billion**

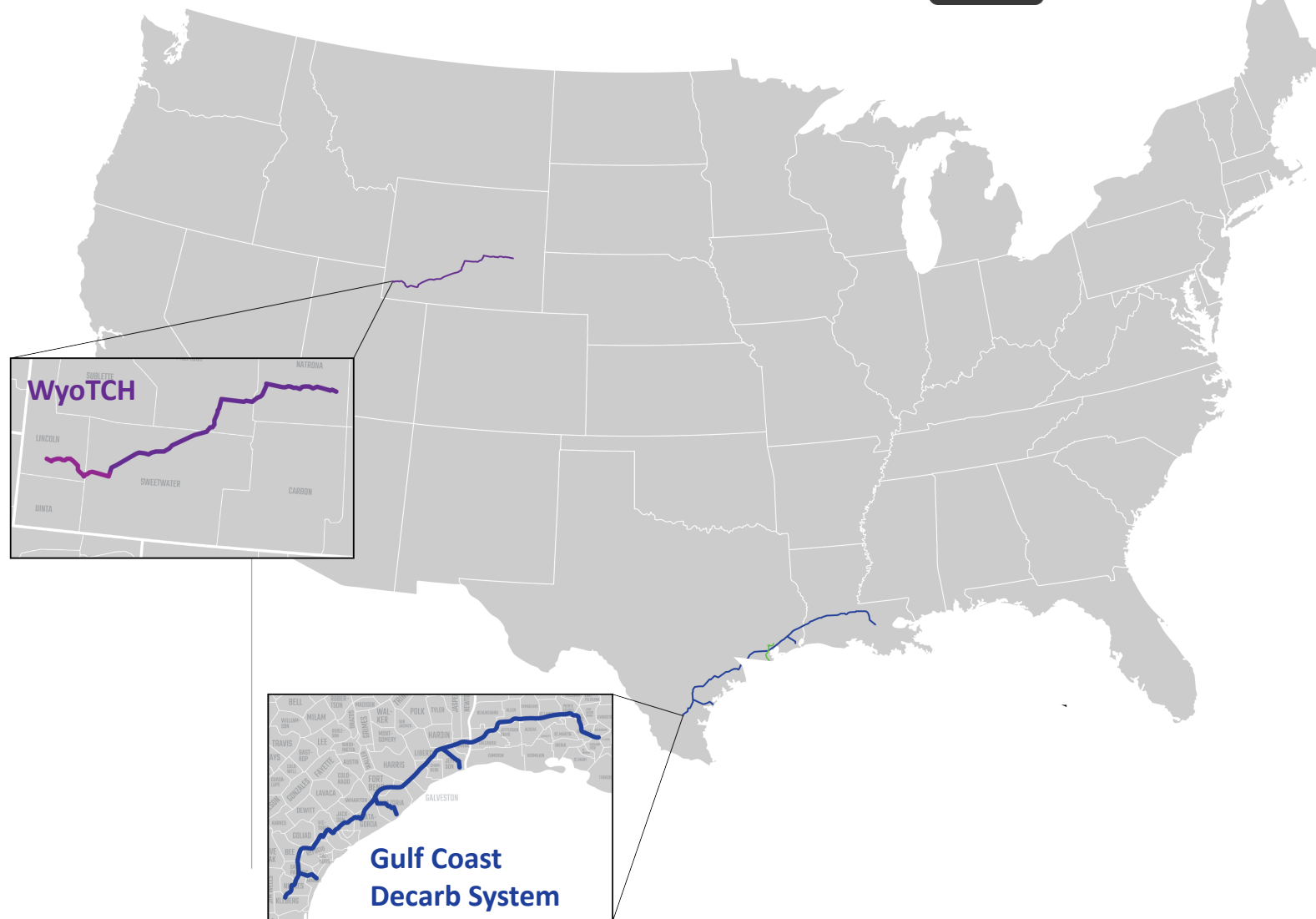
BIL Section 40303: FEED Studies for Carbon Transport

Systems

Funding Opportunity Announcement DE-FOA-0002730



- Multiple Openings & Closings during 2022-26
- 1st Closing: November 2022
 - 2 Project Selections:
 - Carbon Solutions – WyoTCH
 - Howard Energy Partners (HEP) – Gulf Coast Decarb System
- 2nd Opening expected Fall 2023



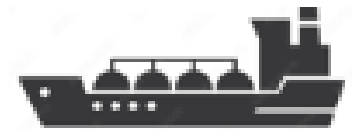
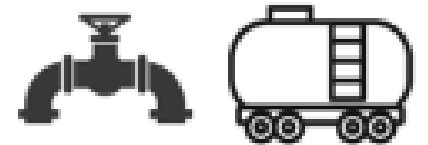
BIL Section 40304: Carbon Dioxide Transportation Infrastructure Finance and Innovation(CIFIA)



Future Growth Grants: Funding Opportunity Announcement DE-FOA-0002966



- Notice of Intent published Aug. 25
- Funding for up to 80% of the difference between the cost of:
 - “Base” transport project (with contracted CO₂ supply) and
 - “Expanded” project (with expected but uncontracted future CO₂ supply).
 - Expanded project must provide increase in CO₂ flow rate
 - NOI provides several Examples
- Base project to be financed via CIFIA Loan from DOE Loan Programs Office (LPO) or private equity/3rd party
 - Funding to be used only for “Expanded” project
- Eligibility for FOA is restricted
 - Must submit Letter of Interest to LPO



BIL Section 40305: Carbon Storage Validation & Testing Carbon Storage Assurance Facility Enterprise (CarbonSAFE)



Phase I: Integrated CCS Pre-Feasibility
12-18-month initiative

Phase II: Storage Complex Feasibility
18-24-month initiative

Phase III: Site Characterization and Permitting
<3-year initiative

Phase IV: Construction
<2.5-year initiative

- Formation of team
- Inventory available data
- Purchase seismic data
- Purchase and condition well data
- Model scenarios
- Risk Assessment
- Community Benefits

- Data collection
- Geologic analysis
- Analysis of contractual and regulatory requirements
- Subsurface modeling
- Risk Assessment
- Evaluate monitoring requirements
- Community Benefits

- Detailed site characterization
- Prepare/Submit UIC Class VI or BSEE Permits to Construct
- CO₂ Source(s) Feasibility Study
- CO₂ Pipeline FEED Study
- Storage Field Development and Commercialization Plan
- NEPA process/approvals
- Community Benefits

- Drill and complete injection and monitoring wells
- Complete risk and mitigation plans
- Obtain EPA UIC Class VI or BSEE Permit/ Authorization to Inject
- Community Benefits

Phase III.5

- NEPA process/approvals
- CO₂ Pipeline FEED and supplemental analyses
- Community Benefits



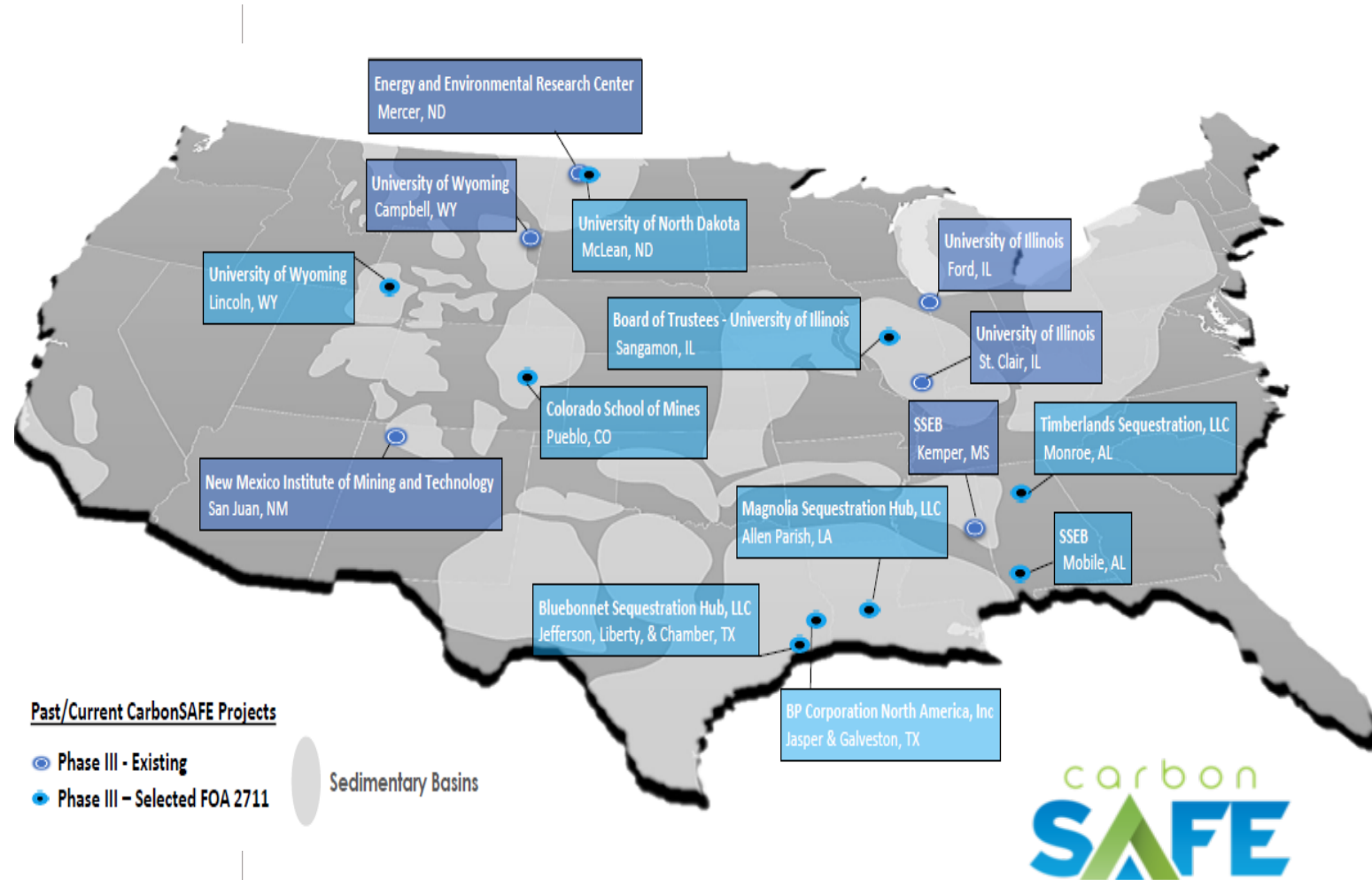
**Funding Opportunity
Announcement DE-FOA-0002711**

BIL Section 40305: Carbon Storage Validation & Testing



Funding Opportunity Announcement DE-FOA-0002711

- Multiple Openings & Closings during 2022-26
- 1st Closing: November 2022
 - Open to Phases III, III.5. and IV
 - 9 Project Selections (all Phase III)
- 2nd Closing: July 2023
 - Open to Phases II, III, III.5 and IV
 - Selections expected Fall 2023



Session Overview

Carbon Transport & Storage Infrastructure Projects (BIL)

- 7 CarbonSAFE projects; 2 Pipeline FEED projects
- Projects have been selected but not yet awarded
- Presentations are **voluntary** – Thanks to presenters!
- 15 minutes vs. 25 minutes
- No Q&A after each presentation (Sorry!)

