



U.S. DEPARTMENT OF
ENERGY

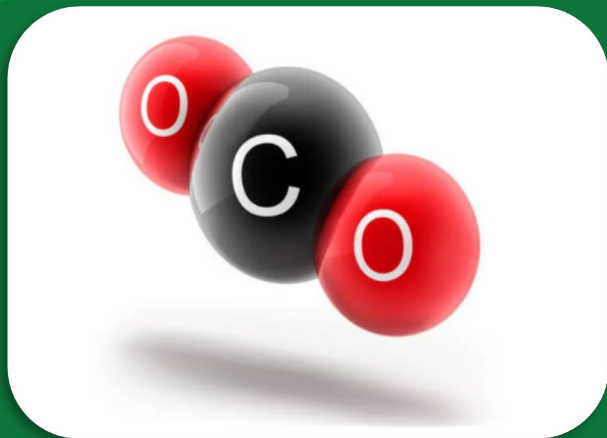
Fossil Energy and
Carbon Management

Carbon Transport Pre-FEED & FEED Studies Program Overview

Kevin Dooley

*Carbon Transport and Storage (CTS) Program
Office of Fossil Energy and Carbon Management*

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Transport Pre-FEED/FEED Studies

Pre-FEED Study Objective:

To support advancements in infrastructure engineering and early conceptual designs needed for large-scale transport projects.

Up to 12 months

FEED Study Objective:

Accelerate the planning and development of CO₂ transportation infrastructure by a variety of modes, such as through rail, trucks, ships, and pipelines.

Up to 24 months

Front-End Engineering Design for CO₂ Transport

FEED Scope:

- **Engineering and Design Package**
 - Route report and map (i.e., wetlands and environmental)
- **Design basis document**
- **Critical safety and risk assessments**
 - Air dispersion and potential impact radius study, Emergency Response Plan, and redundant safety design
- **Environment, Safety & Health and Regulatory Plan analysis**
- **Community Benefits Plan**
- **Cost and Business Case**



Transport Pre-FEED/FEED Studies

Study Type	Mode/Project Type	Project General Location(s)	*Contingent Transport Capacity (MMTPA)
Pre-FEED	Multimodal Hub	OH/PA/WV	3.4+
Pre-FEED	Multimodal Hub	Tampa Bay area, FL	2+
FEED	Pipeline	WY	25
FEED	Pipeline	LA/TX	250
FEED	Pipeline	WY/SD/MT	60
FEED	Barge	OR/WA/CA	1+
FEED	Barge	FL/LA	1+
FEED	Barge	AL/MS/LA	2+

*Values are approximated based on preliminary findings and subject to change

NOTE: The plus sign (+) means potentially scalable

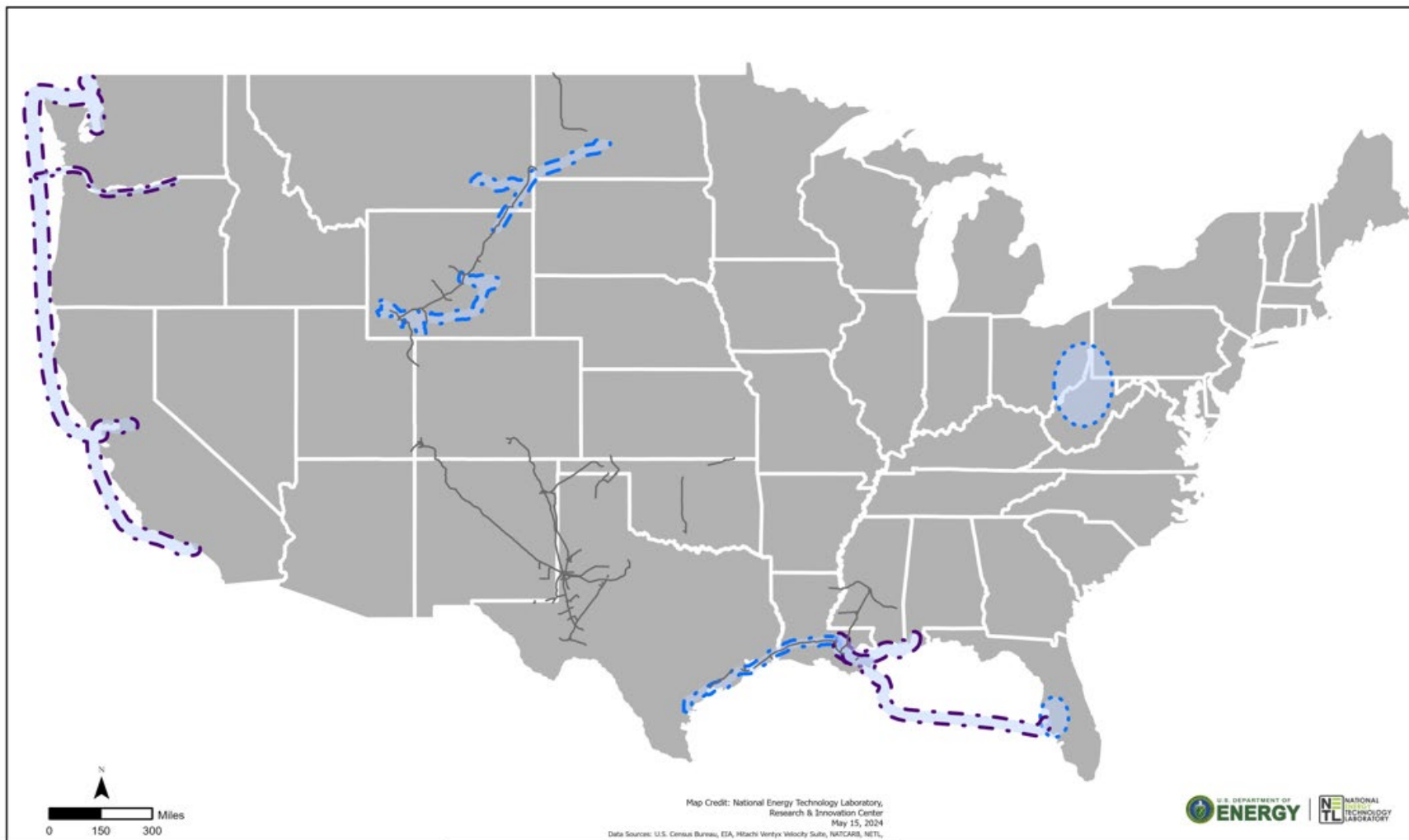
FOA: Funding Opportunity Announcement

MMTPA: Million Metric Tonnes per Annum

Total:

344.4+ MMTPA

Transport Pre-FEED/FEED Studies



Legend

- Transport
- Existing CO2 Pipeline
 - Pre-FEED Multimodal Facility
 - FEED-Pipeline
 - FEED-Waterborne Carrier



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Thank You!



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<https://www.energy.gov/fe/office-fossil-energy>

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Kevin Dooley

Carbon Transport Program Manager

Email: kevin.dooley@hq.doe.gov

