

The Wyoming Trails Carbon Hub: *Project WyoTCH*

Project vision

- DE-FOA-2799: Regional Carbon Management Hub Project.
- Develop a roadmap for *Project WyoTCH*.

Sources

- 10–25 MtCO₂/yr in Phase I.

Storage

- Large-scale distributed storage across Wyoming.

Engagement

- Build job pipeline with local CCUS-related training with communities, including Wind River Tribal College.



Preliminary Modeled CO₂ Network Output for Wyoming (Expanded to all Potential Sources of Capturable CO₂ Emissions and All Storage Opportunities)

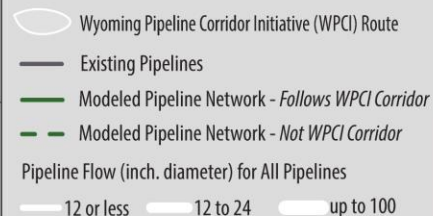
Industry Classifications for Sources of Potential CO₂ Capture



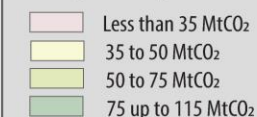
Capturable CO₂ Emissions



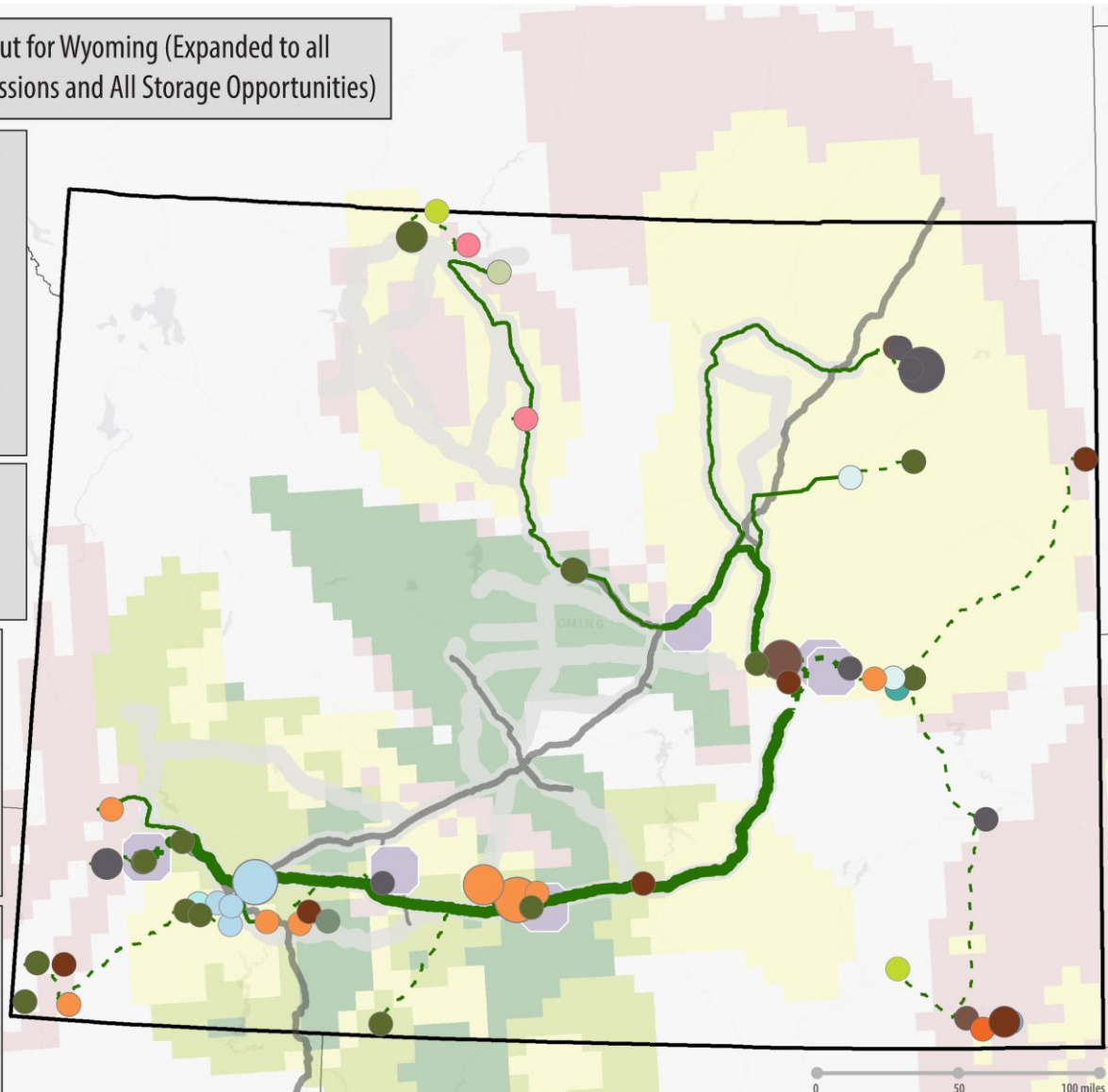
Pipeline Network by Flow Diameter (inch.)



Estimated Capacity of Underlying Geologic Storage (MtCO₂)



Data Sources: Sources of Potential Capturable CO₂ emissions from Carbon Solutions CO₂NCORD Database with underlying EPA FLIGHT information (2021); Existing Pipeline Corridor Information from Wyoming Pipeline Corridor Initiative (WPCI, 2021); Estimated Geologic Storage Capacity from Carbon Solutions SCO2PRO Tool (2022); Basemap: Esri, HERE, Garmin, (c) OpenStreetMap contribution, and the GIS user community



Pre-Proposal Activities: Nexus of technical and socio-economic opportunities



Make Relationships

Regional events, Business meetings, Business associations, Unions, Educational entities



Strengthen Relationships

Local contractors, Source, Storage & Pipeline partners



Explore Communities

Climate plans, Master plans, Newspaper Articles, State/federal projects, Previous research, Opposition to previous projects, Existing partnerships



Identify Preliminary Needs

Jobs, Infrastructure, Education, Energy Transition

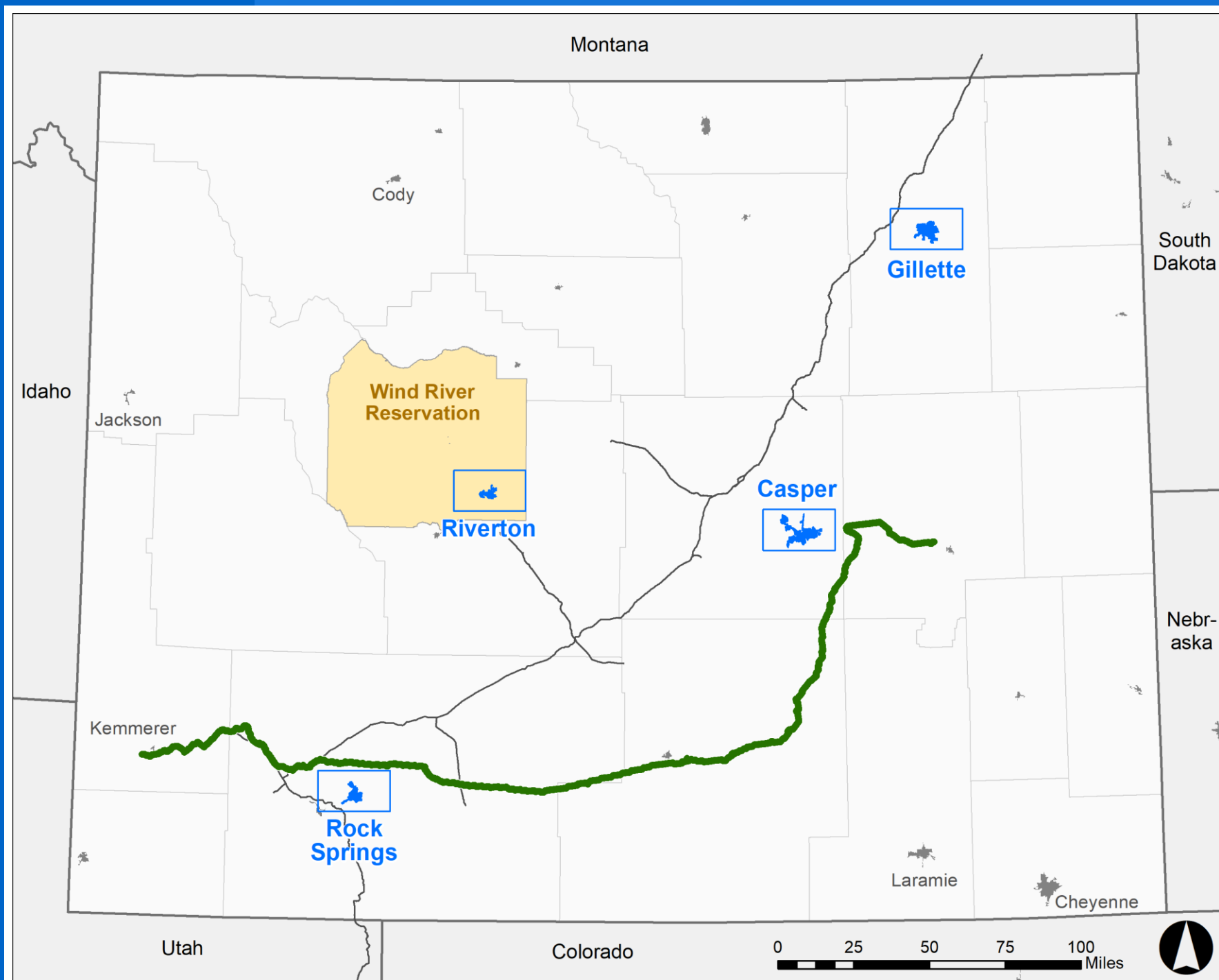


J40, Engagement, Jobs/DEIA

Socialize with project partners, Understand current work

Our vision:
*Community
Engagement*

Statewide
Events



Project Milestones

Establish Tribal CCS Network	Research Experience in Carbon Sequestration (RECS) director, Tribal RECS alumnus, Wind River Community College, University of Wyoming
Needs Assessment	What's already in place?
Develop Pilot	Balance of workforce education, mentorship, and apprenticeship opportunities
Conduct Pilot Event	Students, industrial partners, local businesses, researchers
Evaluation and Refinement	What worked? What should change?
Develop Sustainable Financing	Public/Private stakeholders, Federal programs, Private foundations, Educational Partnerships

Our vision:

J40-DEIA

Tribal CCS Job
Pipeline
Program

Securing a sustainable, responsible, vibrant carbon management future

- ✓ Best social science practices matter
- ✓ Every project matters
- ✓ Community commitments matters
- ✓ Partner cooperation matters
- ✓ Responsible deployment matters

