

Carbon Capture Utilization and Sequestration



CCUS in Wyoming

Carbon Management Leader

With an abundance of natural resources, Wyoming is known as the “Energy State,” and for good reason. Wyoming consistently ranks high in traditional, emerging, and renewable energy sources.

Environment

Wyoming has been a leader in energy for more than 100 years and is home to a highly-skilled, well-trained workforce. Wyoming knows what it takes to support major energy projects, and the state has a history as the nation’s leader on energy issues.

Potential

With the existing pipelines for transporting, using, and storing CO₂ in place, Wyoming is ready for continued CCUS development. The Wyoming Pipeline Corridor Initiative allocated corridors for future use of pipelines associated with CCUS. Approximately 2,000 miles of pipeline corridors throughout Wyoming have been identified as essential. In terms of sequestration, Wyoming has Class VI wells primacy for CO₂ injection and the geological formations suited for sequestration. The Enhanced Oil Recovery Institute has in-depth mapping which demonstrates the potential for CCUS.

LOW TAX BURDEN

NO corporate or personal state income tax

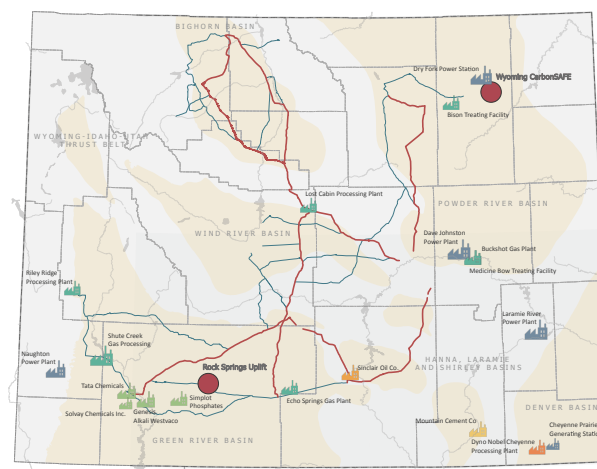
NO inventory tax

NO franchise tax

NO occupation tax

NO value-added tax

Wyoming Pipeline Corridor Initiative



CO₂ Sources
Industry type sized by capturable CO₂ (MMTs)

- Power Plants
- Gas Processing
- Trona
- Cement Processing
- Refinery
- Chemical Manufacturing
- CO₂ Storage Projects

Wyoming Pipeline Corridor Initiative

- Lateral Line
- Trunk Line
- Geologic Storage

The Wyoming Pipeline Corridor Initiative (WPCI) aims to establish corridors on public lands dedicated for future use of pipelines associated with carbon capture, utilization and storage (CCUS), enhanced oil recovery (EOR) and delivery of associated petroleum products.



FEATURED BUSINESSES:

Exxon Mobil

The company plans to expand existing carbon capture and storage operations at its LaBarge, Wyoming facility, which has already captured more CO₂ than any other facility in the world. The expansion project will capture up to 1 million metric tons of CO₂, in addition to the 6-7 million metric tons already captured each year.

Integrated Test Center

One of the only such facilities in the world and the largest in the U.S., the Integrated Test Center provides space for researchers to test Carbon Capture, Utilization and Sequestration (CCUS) technologies using 20 MW of actual coal-based flue gas at Basin Electric facility. Along with testing capture technologies, additional research looks at taking flue gas and turning it into a marketable commodity. The ITC is one of the few research and testing facilities at an operating coal-fired powered plant, allowing for real-world testing at an active power plant, alleviating typical concerns over being able to transfer technology from a lab to a plant.

Rocky Mountain Power

PacifiCorp, owner of RMP, is working to explore the feasibility and design of a carbon capture, utilization and sequestration facility or facilities to remove carbon dioxide from exhaust gases for the company's Wyoming operating coal-fueled generation facilities and subsequently utilize and/or sequester all removed CO₂.

SUPPORTED INDUSTRY RESEARCH & TRAINING PROGRAMS:

University of Wyoming School of Energy Resource's Center for Economic Geology Research (CEGR)

CEGR research scientists actively collaborate with industry, the state of Wyoming, local governments, and national laboratories to characterize Wyoming's vast subsurface resources for carbon dioxide sequestration, oil and gas recovery, and mineral extraction.

Learn more about Wyoming's
CCUS economy at
WhyWyoming.org
WyoEnergy.org

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