

# Appendix V – Public Summary

## Wyoming Integrated Test Center Enhancement Funding

The Wyoming Integrated Test Center (ITC), located at Basin Electric Power Cooperative’s Dry Fork Station (DFS) near Gillette, Wyoming, is a state-of-the-art facility supporting the development and commercialization of carbon capture technologies for both utilization or permanent storage purposes. Since its opening in May 2018, the ITC has provided researchers with the essential infrastructure to test capture technologies using actual coal-derived flue gas.

Wyoming Matching Funds are being sought to support the proposed project “Wyoming Integrated Test Center Enhancement Funding”, submitted by the University of Wyoming School of Energy Resources (UW-SER) and selected for award by the U.S. Department of Energy. The project aims to expand the ITC’s capabilities by accommodating a wider range of carbon management technologies. Led by UW-SER, the project will allow the ITC to simulate emissions from various sources, such as natural gas and industrial facilities, offering flexibility to researchers and reducing redundant infrastructure. It is also expected to streamline the onboarding process for technology developers and offer ongoing operational and technical support.

The facility upgrades and operating plan will help ensure continued ITC operations beyond 2026, attract diverse research tenants, and strengthen Gillette’s role as a national hub for carbon management innovation and workforce development. The upgraded facility will provide improved operational support, including 24-hour staffing for safety and logistics. The ITC serves a critical role in the scale-up of novel capture technologies, helping to validate their performance on Powder River Basin coal and other fuel types.

The technologies proven at the ITC have the potential to be applied across a wider fleet of power plants and industrial sectors, resulting in more efficient carbon dioxide recovery for use in products, enhanced oil recovery, or for permanent storage. Benefits include supporting job creation, local economies, oil and gas recovery, and long-term solutions for reducing carbon emissions.

Additionally, the proposed project seeks to direct benefits to communities in Wyoming through education and outreach efforts. The project team plans to host community engagement functions, explore opportunities for developing internship programs, analyze workforce training needs in the carbon capture, utilization and sequestration industry and develop a strategy for land conservation/restoration in the project area.