

## **MTR's Large Pilot Project at Dry Fork Station**

In this project, Membrane Technology and Research Inc. (MTR) is advancing their innovative membrane-based post-combustion carbon capture process through the final pre-commercial stage of development. The goal of this Department of Energy (DOE)-funded project is to design, build, and operate a 150-tonne-per-day (TPD) large pilot CO<sub>2</sub> capture system at the Wyoming Integrated Test Center (WITC) in Gillette, Wyoming. The MTR Large Pilot plant will process a 10-megawatt-electric (MWe) equivalent slipstream of flue gas from Basin Electric's Dry Fork Station coal power plant, achieve greater than 90% CO<sub>2</sub> capture rate, and produce pipeline quality CO<sub>2</sub>. Site construction at WITC began in July 2023 with a scheduled commissioning date in late summer 2024. Successful operation of MTR's Large Pilot will be an important validation of this environmentally friendly carbon capture approach. It is also an integral step for another MTR project at Dry Fork Station recently awarded by the DOE Office of Clean Energy Demonstration (OCED) that covers Phase I of a full-scale, integrated carbon capture and storage program. This overall effort will position Dry Fork Station to be a low-carbon emitting, base-loaded generation asset for many decades to come, and will showcase a clean, affordable capture option for industries utilizing coal in Wyoming and beyond.

The WITC is a preeminent post-combustion carbon capture test facility developed with support from the state of Wyoming, Basin Electric, National Rural Cooperative Association, and Tri-State. The facility offers multiple plug-and-play test stations that support both large and small test systems. The WITC infrastructure includes a supply of flue gas from Dry Fork Station and utilities required to operate test systems (power, water and wastewater connections).

Headquartered in Newark, California, MTR Carbon Capture develops and deploys environmentally friendly carbon capture systems built on its proven Polaris™ membrane. MTR Carbon Capture is a division of Membrane Technology and Research, Inc., a world leader and commercial supplier of membrane-based separation systems for more than 40 years.