Jim Bridger Carbon Capture Front-End Engineering Design Study
Wyoming's Energy Matching Funds Application

Project Applicant: PacifiCorp

Qualifications: PacifiCorp is a regulated electric utility company with a long-standing presence in the energy sector, serving more than two million customers in six western states, including Wyoming. PacifiCorp has demonstrated a strong commitment to innovation and sustainability, with significant investments in reliable and affordable energy projects to meet customers' needs and regulatory requirements. The company is experienced in large-scale infrastructure projects and has a proven track record of successfully implementing complex energy projects. PacifiCorp's expertise in integrating new technologies into its operations positions the company as a capable leader for a carbon capture project. PacifiCorp's resources, skilled workforce, and dedication to reducing carbon emissions align with Wyoming's energy goals for advancing low-carbon dispatchable generation while maintaining energy reliability.

Project Summary & Outcomes: PacifiCorp is proposing to conduct a front-end engineering design study for a full-scale amine-based carbon capture facility to remove 90 percent or more of the carbon dioxide (CO_2) from flue gas emissions at PacifiCorp's existing coal-fueled Jim Bridger units 3 and 4. The project will include the evaluation of processing the flue gas to achieve pipeline-ready CO_2 and the transportation and storage of the CO_2. The project has the potential to capture approximately 89 million metric tons of CO_2 over the life of the project. The study will allow the Company to determine the technical and economic feasibility of a carbon capture retrofit at the units. If the results of the study are positive, there is regulatory support, and adequate partners, the project will proceed to the next phase of development.

Energy Matching Funds Request: $6,278,076

Benefits to the Public/State of Wyoming: If the project moves from the study phase into construction/operations, there are substantial public benefits to Wyoming. If construction/operation of this project proceeds, it will foster job creation in the community, support economic development in the region, and contribute to state revenue. The proposed project would ensure the continued operation of Jim Bridger units 3 and 4 on coal during the life of the carbon capture project, providing low-carbon dispatchable and reliable power. If the study leads to successful construction and operation of an amine-based carbon capture technology, it will also help support the carbon capture industry as a whole because it would be the largest carbon capture system on a coal-fired electric generating unit in the world.