

Public Summary Document

The Basin Electric Power Cooperative is embarking on a Front-End Engineering Design (FEED) Study for a proposed second coal-fired generation unit at the Dry Fork Station facility located in Gillette, Wyoming. This initiative aims to evaluate the feasibility and implications of introducing an additional unit that will enhance the existing energy generation capabilities to address the growing energy demands in the region.

The primary objective of the FEED Study is to develop a robust and detailed analysis of the proposed second unit, providing essential information regarding technology selection, perform preliminary engineering and design work, and produce an Association for Advancement of Cost Engineering International (AACE) class 3 cost estimate. Key outcomes will include the evaluation of various coal generation technologies, environmental considerations, and logistical requirements. The study aims to confirm the suitability of the current site for the addition and to ascertain the costs associated with the construction and operation of the coal-fired power generation facility.

Basin Electric will collaborate with Sargent and Lundy (S&L), a renowned engineering firm with extensive experience in power generation projects. Their expertise will be instrumental in conducting critical studies, including assessments of boiler technologies, air quality control systems, and regulatory compliance. S&L will also produce preliminary engineering and design deliverables, and work with key equipment manufacturers to incorporate their designs and costs into the project outputs. Through this partnership, the project team will leverage S&L's historical knowledge of the Dry Fork Station and its established presence in coal-fired generation design to ensure a thorough and efficient study process.

The FEED Study is expected to yield vital insights into the project's viability, helping Basin Electric make informed decisions regarding the addition of a new coal unit. If metrics from the study indicate that the project should move forward, it is expected to move into a detailed design and construction phase. Anticipated benefits of constructing this additional unit would include the creation of construction jobs, long-term operational opportunities, and enhanced energy security for the region. Moreover, the study will provide a comprehensive comparison of coal generation alongside alternative energy sources, allowing Basin Electric to align its resource planning with current energy market trends and regulatory standards.

The FEED Study for the Dry Fork Station Unit 2 represents a strategic move towards bolstering Wyoming's energy infrastructure. By assessing the feasibility and required parameters of a potential new coal unit, Basin Electric aims to continue its commitment to meeting the energy needs of its cooperative members while ensuring environmental and operational standards are upheld. The results of this study will pave the way for future developments in the region's energy landscape, reinforcing Basin Electric's role as a leader in energy generation and sustainability.