

New markets for Wyoming Powder River Basin Coal by Addressing Carbon Management Challenges

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Wyoming Powder River basin coal is a vastly abundant mineral resource that is widely used to generate electricity across the United States. It is one of the cleanest coals available and has some unique chemistry attributes. Through deliberate decomposition in original ways, reveals the ease at which the latent value of this valuable coal resource can be realised in the manufacture of high carbon content materials and chemicals, while simultaneously addressing carbon dioxide emissions challenges .

Recent research and technology development on the conversion of coal to non-energy and fuel products conducted at the University of Wyoming will be discussed and will include strategies being implemented to both sustain coal as a competitive clean energy resource and results of recent successful technology development achievements that create new carbon products that can be leveraged to create economic diversification opportunities for coal in the State of Wyoming as well as protecting existing markets.

Insights shared, will show how the comprehension of molecular structure and the physics and chemistry of coal can be used to meet sustainability, environmental and business goals in a tightening regulatory environment.