

## Reference List – Coal Industry Selected Projects

Some of our most relevant projects have been selected and are presented in the following slides.

For more information please contact us at  
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### Ameren Power, MO and IL

Conversion from high sulfur bituminous coal to low sulfur sub-bituminous Powder River Basin coal.



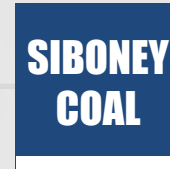
### Peabody Coal – various locations

- Underground mine planning, design of coal handling facilities on the surface for a new longwall operation in Colorado. This included a 7-mi overland belt conveyor to an existing coal processing facility.
- Underground mine plan, design of coal handling facility for new mine in Illinois. This included a slope, bottom development, and material handling to an existing facility.
- Conceptual and final mechanical & structural engineering for the renovation of a barge loadout at Eagle Dock, IL.



### INR Energy, WV

Technical due diligence of the geologic model, mine plans, equipment and infrastructure of an underground and surface coal mining complex for a potential acquisition.



### Siboney Coal, KY

Evaluation of coal properties to assess the status of mining activities and determine potential land use.



### Arch Coal, various locations

- Design bridge for shovel and haul trucks to cross over railroads.
- Complete redesign of the mine layout and improved pillar design/configuration which eliminated the occurrence of violent coal bumps along the longwall face.
- Oversaw the design, construction, start-up and operation of a 1400 tpd coal preparation plant and extensive overland conveyor system.
- Initiated and oversaw a project to expand the existing staging track which increased the annual shipping rate for one of the mines by more than 5 million tpy.



### Signal Peak Energy, Montana

Technical Due Diligence of a longwall mining operation including mineable coal seams by underground or surface mining methods, operational review, infrastructure, loadout, rail line, management and risk assessment.



### **Consol Energy, Ohio Operations**

Mine plans and feasibility studies for shovel, dragline and dozer contour strip operations. Mine plans, ventilation and feasibility studies for room and pillar and longwall operations.

### **Consol Energy, Illinois Operations**

Conversion of the Illinois mine from a two-dragline operation to a truck/shovel and one dragline operation saving the company millions of dollars per year.  
Development of computer models which maximized profits by analytically determining which mine and mine section to optimize quality and profits.

### **Consol Energy, Kentucky Operations**

Mine plans and feasibility studies for eastern Kentucky

### **Consol Energy, Indiana Operations**

Mine plans and feasibility studies for shovel operation in Indiana.

### **Consol Energy, Utah Operations**

Front-end engineering and capital cost estimate for new longwall mine and 7-mile overland conveyor.

### **Consol Energy, New Mexico Operations**

Engineering for coal handling, structures, mechanical, piping, electrical, automation & instrumentation, including a power system study and assistance in bid packages preparation and bid review.  
Evaluation of truck dump options with pre-project assistance.  
Overland conveyor analysis from discharge end of slope conveyor to feed hopper.  
Evaluation of feasibility of reopening a shut-down barge loading facility.  
Cost estimate study for a truck unloading station and barge loading facility.

### **Consol Energy, West Virginia Operations**

Development of bord and pillar mines. Time studies and analysis of underground mining operations to improve productivity.



### Kaltim Prima Coal, Indonesia

Technical review of Kaltim Prima Coal, an open pit coal mine producing more than 50 mtpy: environmental and regulatory compliance, mine design, infrastructure, mine operations, port operations, Capex and Opex, finances, reclamation liabilities and risk analysis.



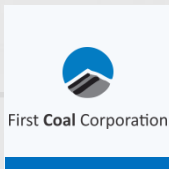
### Sandstorm Resources, USA

Due Diligence of several underground and surface coal mining operations in Alabama, Tennessee and Kentucky, including production and cost improvements for the potential acquisition of Sandstorm Resources.



### Consorcio Minero de Cucuta, Colombia

Technical review of resources/ reserves, underground mining operations, infrastructure and transportation methods, including review of neighboring opportunities and recommendations of methods to improve production and lower costs for potential investment.



### First Coal Corporation, B.C., Canada

Technical due diligence of a start up operation utilizing surface pit mining and highwall miners to extract a high grade metallurgical coal.



### Rio Tinto, USA, Europe and Australia

Technical due diligence of Rio Tinto Mining's talc surface mining operations for potential acquisition. Identified production improvements and possible cost reduction opportunities.



### Confidential Client, Montana

Technical review of the geologic model, mine plan, and operation of a large surface mine for a potential acquisition. Assessment of the mine management, environmental impact and mining permits, labor agreements, infrastructure, coal quality, etc.



### Confidential Client, Arkansas

Operational review of an underground metallurgical coal mine in support of potential acquisition. Review of the reserves, operational performance, equipment condition, etc.



### Confidential Client, Colorado

High-level due diligence of an underground longwall coal mine in support of potential partnership. Review of the mine plans, geological information, productivity, safety, etc.



### Confidential Client, Colombia

Scoping study for an underground coal mine utilizing multiple longwall mining machines. Evaluation and modeling of inter-seam stresses and hydrological inflows, benchmarking of mine operations with other mines around the world, CAPEX and OPEX, mine layouts and trade-off studies.



### Confidential Client, Colombia

Evaluation of coal mining operations and mining concessions in Colombia. Estimated the in-situ mineable quality and quantity of coal tons from targeted seams. Assessed the infrastructure, logistics, safety, and environmental aspects of mining operations.



### Confidential Client, Colombia

Review of GMS Minerals in Boyaca, Colombia. Oversaw and monitored exploration drilling and testing program. Advised on resources and reasonable expectations of economic extraction.

### Millers Cove Energy

### Millers Cove Energy Co.

Construction and start-up of several new surface and underground coal mines. Implementation of new preventive maintenance program. Construction of a new haulroad into a new area which provided access to fresh sources of ROM purchase coal to produce and blend with current production.



### PT Mustika Indah Permai, Indonesia

Development of several preliminary open pit mine designs and cost estimates to provide favorable options to PT Mustika for a mining title in Indonesia. Numerous operating plans were considered. Space for waste material was a primary concern along with reasonable options to blend quality between numerous coal seams.