

COAL / LIGNITE PREPARATION & HANDLING



SERVICES

The Millcreek Mining Group is affiliated with Millcreek Engineering, an integrated engineering company serving the energy and resources industries. We provide support at every stage of project development ranging from geologic and mining consulting services through detailed engineering, procurement and construction management (EPCM).

Through our selection of core professionals, we bring to your project a team of trusted and respected industry experts. An understanding of our client's needs coupled with effective management and a streamlined corporate structure allows us to provide an excellent and highly competitive service to the mining and natural resources sector.

Our professionals are global-leaders with over 30 years of experience in engineering of coal preparation and handling plants throughout the world. Our work has ranged from plant design to project implementation and construction management and covers various disciplines, including:

Services

- Project definition and preliminary assessments
- Identification of design criteria
- Process flowsheet design
- Equipment sizing and selection
- Feasibility studies
- Process optimization
- Plant layout
- Cost estimation
- Benchmark audits and operational improvement
- FEED engineering
- Detailed engineering and design
- Procurement
- Execution and construction management
- Commission and training

Disciplines

- Sampling
- Crushing and comminution
- Screening
- Gravity separation (Dense Medium Separation (DMS) processes, Jigs, Cyclones, Spirals)
- Flotation of fine coals
- Dewatering
- Bulk materials handling (including conveying storage, reclaim, blending, loading and unloading)
- Transportation (rail, truck, ship, and barge)

We have developed a highly-streamlined business model which allows us to provide industry-leading, world-class experts at competitive rates. By providing expertise in both mining and coal processing, we are able to integrate the operations and deliver practical and cost-effective solutions to our clients.

For additional details on our coal experience, please request a copy of the resumes of our key personnel.

PROJECTS EXECUTED

Millcreek Mining Group professionals have had prior experience in the following representative projects:

Parsa Kanta - Adani

Engineering, procurement and construction of a 15 million tonne per annum, 2,550 tonne per hour (4x650 tonne per hour) coal handling and preparation plant with dry fines by-pass, jig separator, belt press filter and thickener.

Maruwai Coal – BHP Indonesia

Feasibility study for a 5 Million tonne per annum coal handling and preparation plant with dual circuit 500 tonne per hour coal processing plant modules, a 130 kilometer overland conveyor, truck dump and barge loading / unloading systems.

Alpha Coal – GVK Group

Engineering, procurement and construction of a greenfield coal mine and 60 million tonne per annum coal handling and preparation plant, 4x1,500 tonne per hour modules with dense media cyclones, reflux classifiers, belt press filter, and tailings thickener. Run-of-mine dump stations, coal handling systems, a 21-kilometer overland conveyor, product stockpile and an 8,000 tonne per hour train load-out.

Blackwater – BHP Mitsubishi Alliance

Engineering, procurement and construction management of 14 million tonne per annum product stockpile with 2 x 900 tonne per hour modules with dense media circuit/spiral/flotation circuits, disk filters and tailings disposal. Coal handling and preparation plant with 5,000 tonne per hour reclaimers and 5,000 tonne per hour train load out.

TXU

Engineering and supply for an air-jig beneficiation system for lignite projects in Texas, USA.

Piast Mine - KWK

900 tonne per hour washery with fine coal jig, tabor screens, classifying cyclones, clean coal centrifuges, 6,000 tonne raw coal silo, 50,000 tonne clean stockpile, reclaim system, blending station and train load out.

Oaky Creek - Xstrata

Design and construct modification to a coal handling and preparation plant. Upgrade dual, single feed modules from 1,300 to 2,250 tonne per hour. Circuits included classifying cyclone feed, spirals, flotation, spirals product dewatering, spiral rejects dewatering and clarified water.

GTL Energy

Developed a proprietary technology to upgrade lignite to improve the thermal heat value and to utilize for gasification processes. It involved multiple stages of compaction, drying, and briquetting, and was implemented at projects in the US and New Zealand.

Stasciz Mine - KWK

1,000 tonne per hour addition to the existing coal washery including screens, crushers, centrifuges, cyclones, belt presses and high-speed centrifuges, as well as construction of a 4,000 tonne capacity silo on a “floating” concrete mat.

Curragh - Wesfarmers

Front-end engineering design for mid-sized circuit upgrade and feasibility study for new 1,200 tonne per hour preparation plant to run in-parallel with the existing facility. New facility incorporated reflux classifiers.

GVK Energy

Feasibility study proposing installation of an air-jig system in place of a conventional wash facility, at a project in the Galilee basin, Australia.





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