

# Technical Excellence & Operational Improvement

Driving Global Excellence in Efficient and Sustainable Resource Management

Capability Statement 2024

## Enhancing performance for superior results across project lifecycles

### **Feasibility, Operation, Optimisation, Divestment**

Xenith's planning team delivers real value to clients offering mine site assistance with operations planning, design, and scheduling. We have extensive experience in multiple commodities both open cut and underground including coal, base metals, and precious metals.

We utilise our broad technical skills to develop executable and value accretive business plans, with a level of rigour that ensures total alignment with recognised codes and standards for our clients.

Our services enhance operational performance, integrating meaningful community engagement, ethical supply chains, social impact management, and diversity, alongside technical excellence and compliance, optimising success throughout the project lifecycle.



### **Our team offers:**

- > **Data Mining & Validation**
- > **Geological Modelling & Resource Definition**
- > **Concept, Pre-Feasibility & Feasibility Studies**
- > **Mining Method Design & Optimisation**
- > **Equipment Selection & Benchmark Modelling**
- > **Short Term Planning & Site Support**
- > **JORC Resource & Reserve Estimations**
- > **Renewable Energy Systems**
- > **Operational & Cost Improvement**
- > **Operational Benchmarking**
- > **Financial Modelling & Business Analysis**

Our dedicated team of engineering professionals have recent site experience drawn from a wide variety of management, technical and operational roles. Latest technologies and new design approaches have been incorporated into industry leading mining solutions.

Projects have been undertaken in Australia, South Africa, Indonesia, and the Americas in recent times.

## Impact on community

Through technical excellence and operational improvement, we want to support and achieve a prosperous, engaged, and environmentally sustainable society through meaningful community engagement, supply chains which observe basic human rights, and the measurement and management of social impacts.

Sustainability and governance form the foundation of our mission. We empower progress by sharing expertise, ensuring integrity, and delivering real results.



### Project spotlight

Xenith was engaged by a successful open cut mine in central Queensland producing 3Mtpa ROM coal and 46Mbcm pa total waste to provide mine planning assistance to their operation.

This work included mine design and reserving for dig and dump activities, dragline system optimisation (Dragsim) and execution planning (3d-Dig), short-range forecast scheduling, technical mentoring, and construction of the site budget including setting of production goals based on industry benchmarking.

Xenith's input ensured the site worked to productive mine plans, had an achievable budget, and had technical mentoring provided to site personnel to improve their skill base. Our assistance also allowed the site to maximise cashflow through a prolonged period of low coal prices.