

Optimising Mining Operations for Investment Returns

Global Commodity Investor

Objective

The mine had been going through a ramp up period and the owner was cash constrained and not hitting the required performance. Xenco was engaged to conduct an operational performance review of an underground mining asset. The objective was to identify key drivers of downtime, optimise equipment and workforce utilisation, and provide actionable recommendations to maximise production and overall asset value for investors.

Following the review, Xenco also provided operational management to implement a revised operating model, stabilise daily production, embed disciplined processes, and ensure the asset achieved optimal performance during a period of strategic transition.

The Challenges

The mining asset was experiencing operational constraints that limited production potential and impacted overall efficiency.

These challenges included:

- **Equipment Reliability** – Unplanned downtime on critical miners and conveyors reduced operating hours.
- **Workforce Availability** – Reduced crew numbers required shift adjustments and panel prioritisation.
- **Operational Complexity** – Multiple panels and equipment types created coordination inefficiencies.
- **Process Bottlenecks** – Delays in mining preparation, ventilation, and inspections impacted production.
- **Asset Utilisation** – Equipment was not fully leveraged, limiting peak production potential.

AT A GLANCE

Key Challenges



Equipment Reliability



Workforce Constraints



Operational Downtime



Asset Utilisation



System Bottlenecks

Key Benefits

- **Improved** operating hours by changing operating model
- **Increased** monthly output, driving significant asset value
- Reduced unplanned downtime through targeted interventions
- Priority production improvements embedded within weeks, delivering immediate performance gains
- Structured roadmap of initiatives for operational optimisation
- Clarity for lenders and stakeholders provided, supporting strategic decisions and maximising asset value

Our Approach

Xenco applied a structured operational model ensuring investors' capital was translated into measurable operational performance gains. The approach combined data-driven diagnostics, hands-on operational oversight, and strategic leadership to align the mine's operations with investor objectives.

Key elements of the approach included:



Operational Diagnostic

Analysed historical performance data to identify root causes of downtime, production variability, and cost pressures.



Onsite Verification

Engaged directly with site teams to validate findings, assess equipment reliability, and understand workforce constraints.



Priority Planning

Developed and implemented an optimised panel sequencing plan and equipment utilisation strategy to maximise output with available resources.



Daily Execution Support

Embedded operational discipline through clear shift plans, task prioritisation, and proactive management of equipment, labour, and consumables.



Strategic Oversight

Assumed operational leadership where required, ensuring full adoption of the new operating model and alignment with investor objectives.



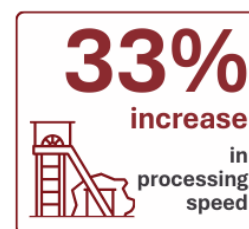
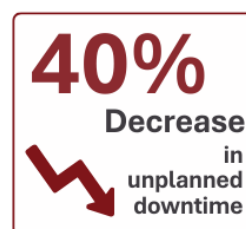
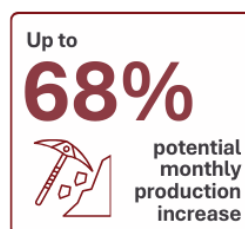
Actionable Recommendations

Delivered a structured roadmap of short-term improvements and long-term initiatives, providing clarity on where value could be realised.

Our Results

The review delivered measurable improvements and a clear value-creation pathway across key areas:

- Embedded clearer planning, execution rhythms, and accountability at the shift and weekly level.
- Priority panel and conveyor improvements embedded within weeks, delivering immediate gains
- Evidence-based insights provided clarity for lenders and stakeholders, supporting strategic decisions and maximising asset value.
- Identified opportunities to materially lift monthly output through improved equipment utilisation and sequencing.
- Reduced unplanned downtime and increased effective operating hours.
- Highlighted immediate cost-out opportunities through workforce optimisation and removal of redundant equipment.



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If you're looking to experience innovation and excellence at your business, get in touch with us today.

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