

PROCESSING PLANT OPTIMISATION PROJECT

CASE STUDY

key

Our Goal:

Our client had an annual production of 40 million tonnes per annum. With the high demand for Iron Ore and an increased focus on minimising costs, optimisation of existing infrastructure and control philosophies was the key to maintain competitiveness.

Key Engineering Solutions was in charge to help de-bottlenecking and improve plant performance.

Our Solution:

A holistic approach was taken to improve the customer's processing plant, starting with identifying and reporting plant's constraints in a dashboard.

Then applying de-bottlenecking practices to continually improve over the current constraint, resulting in an increase in feed rate and a significant reduction in standard variation.

Unlocked Potential:

A couple of Key engineers provided value adding modifications to the plant's control system to achieve improved & sustainable results. Within a record time of three months' modifications to the existing control strategies for both wet and dry plants were completed and as a result plant production was increased.

Operations and Process Control coaching and mentoring: Key personnel worked together with operators, process control and process engineers in order to achieve sustainable results



Andre Gibson

Co-founder & Director
Principal Process Control Engineer

Key Insight:

"With simple, smart changes to the control system, performance of the plant was less dependent on the operator of the day and consistently higher"

Key Success Factors



Time 3 Months



People
2 Senior Process Engineer



Money \$144K



Tools



Cimplicity

