

CASE STUDY

BlendOpt

Multi-mine optimisation and simplified production strategy



Paradyn

**Integrated
Value-chain
Optimisation**



www.paradynsystems.com



contact@paradynsystems.com



Australia: (+61) 390 285 495

USA: (+1) 717 945 0964

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Multi-mine optimisation and simplified production strategy

Make High-Quality Decisions

**BlendOpt Value-chain
Optimisation Platform**

The Challenge

The customer's value-chain consisted of multiple mines with three main mining areas of operations each with separate ROM, product stockpiles and barge loading facilities. The customer had plans to expand their operations in the medium term. Coal is road transported to one of three processing plants and then barged. The operation is characterised by multiple seam complexity, a large number of unique sale contracts, large inventories, and cost drivers such as price penalties and royalties, with low sale prices. An optimisation of product strategy was needed to improve margins and cash flow.

The Solution

BlendOpt was used to model and explore a product portfolio and blending strategy that improved margin projections in alignment with the customer's sales and marketing strategy for the short and long-term, over the customer's baseline.

The Value Unlocked for our Client

BlendOpt demonstrated new production strategies resulting in 3-million more tonnes of production per annum, with improved margins via higher value products and increased ASP, and improved product quality control. Paradyn achieved the customer's success criteria for the customer's requirements for a new value-chain optimisation software solution and satisfied consistent planning outcomes, reduced human data errors, provided transparency for management, and eliminated the need for spreadsheet planning.

The BlendOpt Solution

Paradyn's BlendOpt value-chain platform powered by Collaborative Mathematical Optimisation (CMO) can help you:


- Satisfy constraints in your value-chain
- Optimise for any objective including tonnage, revenue, and cost
- Optimise and integrate operational, tactical and strategic planning from minutes to years
- Improve collaboration and synchronisation between planning and operations
- Publish reports to relevant stakeholders
- Reconcile forecast with actuals
- Optimise reserving, processing, blending and logistical decisions
- Product portfolio optimisation
- 'What-If' scenario analysis

Read our articles to learn about Paradyn's innovative value-chain optimisation technology and how it can help your operation.





The Benefits

 Production increased by 3MT per annum

 Reduced products from 24 to 10

 Margins improved via ASP uplift


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