INTRODUCTION

BlendOpt is a solution platform that makes integrated planning and scheduling decisions of materials from Pit to Port. The software uses mathematical optimisation to simultaneously optimise thousands of decisions to dynamically control material qualities and blends.

The BlendOpt suite holistically approaches all aspects of the resource value chain: track material Point-of-Origin from orebody block to Point-of-Sale, manage blends, control quality, stocks, process modelling, logistics, market strategy, and sales.

WHO USES BLENDOPT?

- Mine Planners
BlendOpt.Integrate
Integrated Planning

BlendOpt.Integrate can generate integrated mine plans which can simultaneously consider decisions across a mining supply chain and across time.

Designed specifically for complex operations, BlendOpt.Integrate is uniquely able to simultaneously optimise processing, logistics and marketing decisions that impact production, revenue, and profit.

When incorporated into a mine planning study, BlendOpt.Integrate creates a complete end to end solution for integrated Mine to Market plan improvement.

Commodities
- Coal
- Iron Ore
- Graphite
- Bauxite
- Gold
- Mineral Sands

BlendOpt.DAV
Data Analysis & Visualisation Engine

BlendOpt.DAV is Paradyn’s proprietary data visualisation tool. Unlike charting in Excel, BlendOpt.DAV supports a dynamic visual interrogation of data that enables you to easily pivot, group, and summarize data. There is no need to learn a complex database management tool.

BlendOpt.DAV is custom built to help you consistently and efficiently discover the ultimate cause of discrepancies within mining data.

BlendOpt.DAV is designed to quickly investigate variance across mine plans as well as validate whether mine planningscripts are achieving required KPIs and business rules.

Commodities
- All

BlendOpt.Processing
Cutpoint & Wash Optimisation

BlendOpt.Processing is a holistic strategy optimisation tool that can model a variety of processing plant flow networks and processing constraints.

For instance, it can improve wash vs bypass decisions as well as the density cut-point for dense medium cyclones while accounting for washability, feed blend requirements, sales targets, and downstream/upstream inventories in the context of the integrated mine planning problem.

In addition to strategy optimisation, BlendOpt.Processing supports the detailed scheduling of daily campaigns.

Commodities
- Coal
- Iron Ore
BlendOpt.SM
Stockpile Management & Rule Engine

BlendOpt.SM stockpile modelling enables you to enhance the supportive role that stockpiling can have on product delivery while balancing this with the costs of unsold inventory.

Time-based models of stockpile quality deterioration, e.g. oxidation, can be created to directly influence planning decisions in BlendOpt's mathematical optimisation algorithm.

Stockpile minimum capacities can be modelled to change with time when it's important for BlendOpt plans to build up stocks.

Conversely, stockpile maximum capacities can also be modelled to change with time, enabling studies into the forced depletion of selected stock.

Commodities
- Coal
- Iron Ore
- Graphite
- Mineral Sands

BlendOpt.MSO
Market Strategies & Optimisation

BlendOpt.MSO uniquely supports marketing teams to maximise the book value of their resources.

Using a list of product definitions, BlendOpt.MSO determines the right mix of product blends and volumes to maximise revenue under different market conditions.

With BlendOpt.MSO, you can automate the investigation of new product studies, revealing the price that a product becomes relevant to your operation and how this changes over time with pricing forecasts and mine plans.

BlendOpt.MSO also determines the greatest economic benefit from buying third party coal as well as how much should be purchased over time.

Commodities
- Coal
- Iron Ore
- Graphite

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