



GROUND BREAKING INNOVATIONS – SAVING MINES MILLIONS OF DOLLARS

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A suite of ground breaking Australian equipment monitoring systems is producing giant leaps in productivity for the nation's multibillion dollar mining industry.

Brisbane based Ground Breaking Innovations' revolutionary productivity data systems are leading to new standards of efficiency, providing mine owners with the opportunity to monitor their output down to the last operator and payload.

GBI's systems have identified savings that have allowed the average dragline payload to increase by at least 10 per cent which translates to an estimated increase of \$2.5 million revenue a year per dragline.

Companies such as BHP Billiton, Rio Tinto Coal, Anglo Coal and Xstrata Coal are embracing the Queensland based GBI's data, services and expertise to increase their performance.

CEO Graham Lumley said GBI's innovations were saving the mining industry millions of dollars each year in operating costs through the analysis of minesite productivity data.

"Our benchmarking, reporting, training, auditing and consulting services are allowing mines to extract equipment performance data to improve on site efficiency and effectiveness." Mr Lumley said.

According to GBI's extensive production data, many mines operate equipment at levels far below capacity – some at 50 percent or less, costing mines millions of dollars each year. GBI's data analysis is so accurate it can pinpoint to the hour any decrease in productivity and the cause of the decrease.

Mr Lumley said through GBI's innovations the Australian mining industry now accepted that payload delivery is the primary driver of dragline productivity. In 2000 GBI began training mining personnel on that basis.

The approach contrasted with traditional training that enabled personnel to operate competently within the confines of their own area without due regard for overall payload efficiency.



Prior to 1999 only five per cent of BE1370W draglines achieved over 100 tonne payloads. Since then GBI has provided mining companies with equipment productivity data making them more aware of what is achievable. In 2007, 51 per cent of BE1370W draglines achieved 100 tonne payloads.

A large part of equipment and operator improvements has to be attributed to the insights GBI has provided.

GBI has been responsible for several other payload related metrics which were introduced in 2001 and are now widely accepted throughout Australia.

GBI has been operating since 1999 and originally established dragline bucket and rigging development work for Central Queensland Mining Supplies Pty Ltd (CQMS) and bucket selection and sizing work (dragline and electric rope shovels) for coal mines throughout Australian.

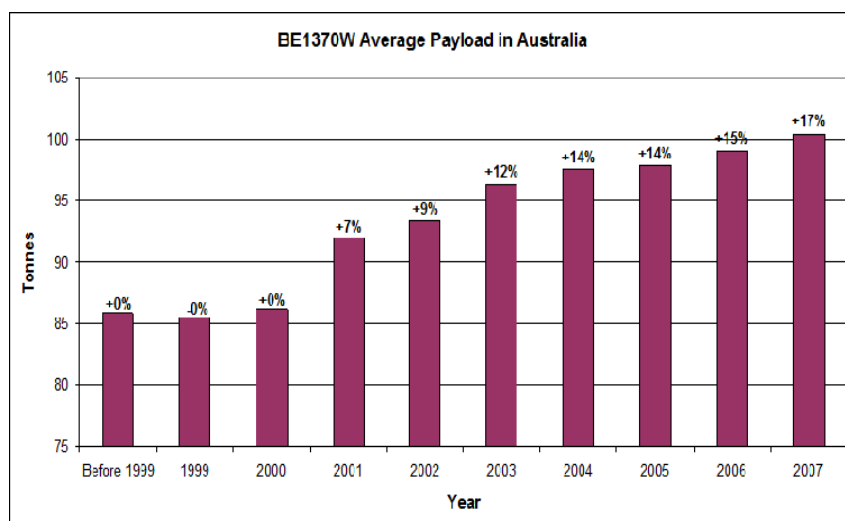
Mr Lumley was aware that an opportunity existed in the market and began developing the equipment data analysis and productivity reporting in 2000 as an extension to benchmarking.

Between 2003 and 2005 the data analysis arm of the business became dominant with a number of large mining companies seeking GBI's data mining intelligence.

"For too long now, mines have been unable to exploit the vast collections of information generated by production monitors due to inadequate interpretation systems and technicians who did not understand exactly what management needed.

GBI has bridged that gap." Mr Lumley said.

DRAGLINE AVERAGE PAYLOAD IN AUSTRALIA



NOTE: Changes in dragline performance since 1999. Estimate only \$250,000 = 1% improvement per annum per dragline.