



## COSOL CASE STUDY

Ensham Resources  
– Wireless Network  
Design  
November 2009

### Our Client

Idemitsu Australia Resources (IAR) owns coal mining operations in Queensland and New South Wales. Ensham Resources is one of their major operations comprising of 5 open-cut coal mining pits and an underground mine, with current production levels of 4.5 million tonnes per annum (mtpa). Ensham Resources has been a valued contributor to the Emerald community since 1993.

Ensham Resources required a review and consolidation of the current state of their information & communications technology (ICT) platform. The objective of this review was to have a future state (covering open cut and underground operations) defined in terms of communications and network, capacity, integration, support, data security and hardware compatibility.

### Our Project

Ensham Resources wanted to formally issue a request for proposal, evaluate responses and select a preferred vendor. They were looking for a robust process with a pragmatic approach to vendor evaluation and selection. COSOL was engaged to assist in this process due to their remote site based experience, clear understanding of the scope of the project and the nuances important to selecting the right, long-term vendor.

A high standard was set to ensure the best platform, but there was a need for the business case to be solid and viable from an ROI perspective. The scope of this challenge included the ability to segregate traffic (penetration of services to all points within the mine including ramps and within pits), apply quality of service (QoS) to traffic, and full repeater site design including masts, power, housing and antenna placement.

### Our Delivery

COSOL provided an expertly designed wireless network that has provided a holistic framework taking into account open cut and underground operations. It is anticipated that the framework will meet the needs of the Ensham Site for the full Life-of-Mine.

### Contact Us

For further details email [enquiries@cosol.com.au](mailto:enquiries@cosol.com.au), visit [www.cosol.com](http://www.cosol.com) or call your nearest COSOL office.