

Sally Malay Mine, North Western Australia

Control systems for large mining power stations are becoming a major part of Greenbird Technology's business and Contract Power Management Australia of Perth, Western Australia have recently completed the commissioning of their first power station using ComAp's IntelliSys controllers.

The station is installed at the Sally Malay mine in the north of Western Australia and provides all of the power for the underground mine, the processing plant which includes a 2.5MW ball mill and the workers camp.



Left: The main control and switch room with the 11kV switchgear on the right and the desk type control panel with 8 IntelliSys and a Power Station Controller



Above: Overall view of Sally Malay power station with control and switch room at left hand side.

The station consists of eight 1.26 MW sets powered by 12 cylinder MTU Detroit 4000 series engines fitted with MDEC engine controllers. This made it possible to utilize ComAp's new I-CB engine interface module, which provided many benefits in this application.

The I-CB's ability to carry out bi-directional data transfer between the MDEC controller enables the IntelliSys to send speed control signals to the MDEC and receive a large number of analogue values from the MDEC plus all of the alarm messages it generates. It also creates large savings in installation costs as the normal large number of multicore cables and shielded cables are replaced by a single shielded pair communications cable. Not only does this dramatically reduce cable use but it can often eliminate up to 200 terminations thereby improving reliability.

Following their success with the IntelliSys controllers in this project Contract Power Management Australia are currently commissioning two further stations using IntelliSys controllers.



Details and photos courtesy of Contract Power Management, Perth, Western, Australia

Above: Main genset hall showing the eight MTU4000 series powered gensets.