

BOWEN BASIN MINING CLUB PRESENTS
QUEENSLAND MINING
AWARDS
2018

WINNERS & FINALISTS 2018

GREYHOUND AUSTRALIA

COST SAVING INITIATIVE AWARD

This category recognises the contractor or supplier whose cost effective, value for money project or innovation/new process resulted in a cost saving outcome for a client.

FINALISTS

COXONS GROUP AUSTRALIA

NOSECONE MODULE EXCHANGE FOR 797F OVERHAULS

In this project, Coxons Group Australia worked with BHP's Maintenance Centre of Excellence to increase the efficiency of 797F nosecone overhauls. Coxons reduced the cost by 35%, taking the entire overhaul in-house and using their service exchange concept to shorten overhauls to just one shift.

ONSITE RENTAL GROUP

ONSITE CONNECT - SMARTER RENTAL EQUIPMENT CONTROL

Working at Rio Tinto Yarwun, Onsite Rental Group implemented a smart tracking system to condense their rental fleet for maximum efficiency. This resulted in a client cost reduction of \$2 million per annum, while increasing productivity.

WINNER

QUARRY MINING

UNDERGROUND ROOF SUPPORT DRILLING METHODOLOGIES

By streamlining the drilling methodology at Glencore's Oaky Creek mines, Quarry Mining saved over \$800,000 and increased productivity. This project replaced obsolete drilling technologies, bringing in new equipment to improve safety. The original cost saving was estimated at \$400,000, but Quarry Mining went above and beyond to double that. Crews now enjoy a quicker, safer, and easier drilling process.

Judges said that this project showed clear cost savings, improved safety of drilling crews and applied an innovative process.

ECONOMX

TIME SAVING INITIATIVE AWARD

This category recognises a contractor or supplier that has completed a project which through an innovation or new process resulted in a significant reduction in initial estimated timeframes.

FINALISTS

MCLANAHAN

LAKE VERMONT FEEDER BREAKER PROJECT

McLanahan worked with Thies to customise the Lake Vermont CHPP's feeder breaker, reducing maintenance delays by hundreds of hours per year. By engineering and installing a front-end access to the ROM bin, McLanahan cut the maintenance time and improved safety outcomes.

QCCS

CONCRETE REMEDIATION - SHIP LOADING BERTH

Rather than demolishing and rebuilding the Hay Point ship loading berth, QCCS implemented a 24-hour workforce and applied process innovations to modify the existing structure to the necessary standards. Labour for concrete removal was reduced by 90%.

WINNER

DOWNER BLASTING SERVICES

DBS SPEEDLOADER

Focusing on reducing downtime of MPU's, Downer Blasting Services eliminated the need to return to the reload facility by delivering product on the blast bench. A blasting cycle with the Speedloader is now 15 minutes, compared to 75 minutes.

By cutting MPU reload time to just 15 minutes and creating a productivity increase of up to 23%, Downer Blasting Services created genuine time savings. The Speedloader has now been implemented on several sites, following its successful trialling. Judges said the Speedloader was an obvious solution to a real problem.

QME

BEST PRODUCT LAUNCH AWARD

This category highlights the most innovative product launched during 2017/2018.

FINALISTS

HMA WEAR SOLUTIONS

SITECH TECHNOLOGY- CYCLONE SHROUDS

HMA Wear Solutions modified the design of existing alumina lined cyclone shrouds and introduced a new lining material, SiTech. This new material increases the service life of a cyclone shroud, decreasing both maintenance costs and downtime.

WOLFF MINING

SEMI-AUTONOMOUS DOZERS

Wolff Mining collaborated with Caterpillar and Hastings Deering to pilot the Command for Dozing module at Curragh Mine. The Command for Dozing module makes mine automation possible in a low-cost environment, while increasing productivity.

WINNER

CONTROL SYSTEMS TECHNOLOGY

IOT VIRTUAL WEIGH FRAME - INTELLIROLL

Intelliroll is an autonomous, remotely accessible, plug and play conveyor belt weigher. The Intelliroll allows belt weighing without wiring, without a PLC, and without being fixed to a gantry structure.

The product is affordable, uses technology well with a smartphone app incorporated, and enables mine operators to have greater control. Judges said the technology was promising – with local development and innovation a great example of Australia's METS industry.

MCLANAHAN

SAFETY AWARD

This category recognises the most outstanding initiative to make safety a priority on site, including continuous improvement and full integration into a project/initiative, with real results able to be demonstrated.

FINALISTS

J.E.S.I

JESI JOURNEY MANAGEMENT SOFTWARE

JESI's software prompts users to check in by simply replying to a text message, with automated escalation alerts if travellers fail to check in. Most importantly, users are consistently reminded of driving risks, with positive organisational behaviour outcomes.

HASTINGS DEERING

NO-HARM FATIGUE TECHNOLOGY SOLUTIONS

Working at BMA's South Walker Creek mine, Hastings Deering trialled a holistic fatigue management system, tracking employees' sleep and fatigue-related performance on shift. Using a data-backed system, Hastings Deering reduced fatigue related incidents on site by 94%.

WINNER

GREYHOUND AUSTRALIA

SAFER TRANSPORT SOLUTION: TECHBUS

Greyhound Australia retrofitted a regular bus to create the TechBus. Using simple but effective improvements like seat belt alarms, fatigue management systems and the Advanced Driver Assistance System, Greyhound set a new standard in best practice, demonstrating their commitment to the mining industry.

Bus accidents are one of the biggest material risks for a mine, so for a contractor to recognise and solve that shows initiative. The judges said that this solution takes the on-site safety message well past the mine gates, something that should be taken on across the industry as a standard.

HASTINGS DEERING

COMMUNITY, STAFF ENGAGEMENT OR EQUAL OPPORTUNITY INITIATIVE AWARD

This category recognises the most outstanding community or internal consultation and engagement project OR the most outstanding initiative to promote equal opportunity.

FINALISTS

NEW HOPE GROUP

LIFEFLIGHT PARTNERSHIP

New Hope Group partnered with LifeFlight to develop the Rural Safety Program, improving rural health and safety in the communities near New Acland. LifeFlight paramedics conduct first response medical training, and New Hope's safety team conduct safety and awareness training.

CLERMONT COAL OPERATIONS

ACDF CONSERVATION AND LAND MANAGEMENT COURSE

Clermont Coal developed a Rangers Training Program for the local Wangan & Jagalingou People. The program was created around Indigenous content and traditions. Twenty students have already graduated with a Certificate II, with several going on to find employment.

WINNER

RIO TINTO

AMRUN PROJECT - SUSTAINING INDIGENOUS EMPLOYMENT

Rio Tinto has taken on a mandate to create and sustain indigenous employment over the whole life of the Amrun Project. Indigenous people have filled 320 roles at the project, including 108 local Wik-Waya people. The Project has also recorded \$1.3 billion in local spending, including 71 Western Cape businesses.

The Amrun Project made a continued and focused effort to not only create but to sustain indigenous employment. Attention through the whole project lifecycle, including recruitment, onboarding, training and local supplier development, has created real community change. Judges said that these efforts showed a long term vision and a sustainable employment program, unique in mine construction.

JCB CEA

INNOVATION AWARD

This category recognises the most original and ground-breaking approach to a project including new concept, technology and/or innovative process that was instrumental in increasing operational efficiency or improving project delivery.

FINALISTS

CREATENERGY OILBOX

WASTE OIL MANAGEMENT

Createnergy developed OilBox, an automated solution to reuse its own waste oil as a diesel substitution for blasting operations. The OilBox saves cost, helps the environment and reduces B-double movements in removing waste oil and transporting diesel to site.

PUMA ENERGY

PUMAMAX NEXT GEN DIESEL

Puma created a new diesel additive which increases fuel consumption by 5-10%, and reduces diesel particulate matter by up to 80%. Not only does this save money, it increases machine availability and minimises carbon footprint.

WINNER

MINE ENERGY SOLUTIONS

DUAL FUEL (HDCNG) DURABILITY TRIAL

Mine Energy Solutions successfully trialled using both natural gas and diesel as fuel sources for off-highway mining trucks at New Acland Coal Mine. The fuel worked to normal diesel parameters with no adverse effects on engine power or performance, reducing diesel cost by up to 25%.

Tackling fuel efficiency addresses a large industry issue, and the demonstrated savings and innovation in this project are clear. The HDCNG fuel has now been integrated into another caterpillar 793F at New Acland Mine, with the patented technology paying dividends.

Judges appreciated the industry-wide implications of this project's demonstrated fuel savings and promising advances in technology.

METS IGNITED

COLLABORATION AWARD

This category recognises the most outstanding collaborative effort between producers and contractors/suppliers, delivering results and enhancing cost-saving, time-saving and/or innovative outcomes.

FINALISTS

ANGLO AMERICAN NOME SERVICES

REAL TIME TAILGATE MONITORING

Anglo American worked with Nome Services to implement the remote reading tell-tale system at Moranbah North, following a significant roof failure. The tell-tales (or remote mechanical monitoring devices) allow Anglo to understand the condition of roof stability without putting staff at risk.

ANGLO AMERICAN JENNMAR

GOLIATH CABLE BOLT SYSTEM

Anglo American collaborated with Jennmar to develop a 100-tonne cable bolt to replace the existing 60-tonne bolts and improve development cutting rates. The resulting 'Goliath' bolt fit this brief, and introduced an innovative hydraulic tensioner design that further improves cable bolt application.

RIO TINTO BECHTEL/JACOBS/MCCONNELL DOWELL

AMRUN PROJECT - CHITH EXPORT FACILITY

Rio Tinto collaborated with major contractors to revolutionise the design, fabrication and construction of its wharf infrastructure. The export facility's jetty and wharf was modularized, saving over 300,000 labour hours and reducing build time by 12 months.

WINNER

UNEARTHED ORIGIN ENERGY/ADVANCE QUEENSLAND

UNEARTHED ACCELERATOR

Unearthed aimed to identify and develop four new resources industry startups, bringing new technology to market. The four startups: Canaria, Flowpay, Sitesee and Modulr Tech, all focused on disrupting existing industry technology.

Showing true collaboration, the Unearthed Accelerator program was supported by an industry partner and a government partner. The four startups have all secured paid site trials and are continuing development, creating jobs and engaging with industry.

Judges said this project demonstrated results and genuine innovation, as a valuable program for the whole resources industry that deserves to be encouraged.

BOWEN BASIN MINING CLUB

QUEENSLAND MINING CONTRACTOR OF THE YEAR AWARD

WINNER

WOLFF MINING

Wolff Mining collaborated with Caterpillar and Hastings Deering to pilot the Command for Dozing module at Curragh Mine. The Command for Dozing module makes mine automation possible in a low-cost environment, while increasing productivity.

Wolff Mining demonstrated innovation and a willingness to collaborate with OEMs to solve a consistent industry issue – and this shone through their submission. Their remote dozer operations trial was smart, collaborative, innovative and had a strong safety element.

“Wolff Mining is leading the industry in this space, solving a consistent industry issue by working with OEMs and taking a risk. This project ticked all the boxes.”

– Peter Kane