



MAGNITUDE

Desalination plant a world first

The Sino Iron project's desalination plant will be one of the most innovative and cost effective plants of its kind in the world.

The plant, under construction at Cape Preston in the Pilbara, will use sophisticated filtration technology to supply process water with a final capacity of 140 megalitres per day, equivalent to the water contained in 56 Olympic sized swimming pools.

In a world first for this size and type of plant, the majority of construction is occurring in China with giant modules being fabricated, assembled and tested prior to shipping. The first module successfully arrived to site in June and at the completion of the project about 60 modules of varying sizes will have made the ocean journey from China.

CITIC Pacific Mining (CPM) site based Community Relations Advisor, Simon Corrigan, said the project was unique in combining known technologies with a new construction method in order to achieve the tight timeline.

"The modular construction was seen as the most cost-effective method in terms of budget, schedule and accommodation pressures and fabrication on site," Mr Corrigan said.

Once operating, the plant will use reverse osmosis to produce desalinated water, which filters seawater pumped under high pressure through a series of semi-permeable membranes.

"When compared to other desalination plants in Australia, the CPM plant will be constructed in roughly half the time, at roughly half the cost. This is a great achievement for CPM, and a credit to the teams who are participating in a valuable knowledge exchange while working to overcome the challenges of this unique infrastructure project," Mr Corrigan said.

Fast facts

- First large desalination plant for a resources project in WA
- 140 megalitre capacity per day = 56 Olympic sized swimming pools
- 13,000 reverse osmosis membranes
- 15,100m³ of water intake per hour
- 6,200m³ water production per hour
- Over 20 kilometres of piping
- Over 230 kilometres of electrical cable
- 15,000 tonnes of structural steel
- Largest module: 55m x 17m x 14m, weighing 1,500 tonnes
- Similar capacity to Perth Seawater Desalination Plant
- In lieu of long-term groundwater use
- Water to be used mainly in magnetite processing
- World leader IDE Technologies appointed as process design contractor

July 2010

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Second desalination module is ready for loading in China



First desalination module being off loaded at Cape Preston



CITIC PACIFIC MINING

Road safety and recreation initiatives

As the Sino Iron project continues to grow, CITIC Pacific Mining (CPM) has committed to a number of initiatives which encourage its employees and contractors to act responsibly and safely on the road and while enjoying local recreational areas.

In conjunction with the WA Police Pilbara District Office, CPM launched the Pilbara Road Safety Initiative earlier this year. The partnership provides employees with a formal avenue to report unsafe driving behaviour by other employees on public roads to a supervisor or health and safety representative. Similarly, if members of the public see any unsafe driving practices by CPM vehicles, they can notify Dampier police who will follow up with the CPM safety team for internal investigation.

Inspector Peter Morrissey of the Police's Pilbara District Office said they were very supportive of the initiative, which included additional support from CPM with three Pilbara traffic patrol vehicles being fitted with rear window road safety signs.

"I thank CITIC Pacific Mining for their involvement and commitment in assisting Pilbara Police to keep our roads safe," Inspector Morrissey said.



CPM Community Relations Advisor Renae Rutherford with (from left) Inspector Pete Morrissey, Sergeant Dan Anderson, Senior Constable Chris Hinch and Sergeant Col Johnson - photo courtesy of Pilbara News

CPM supports prestigious art awards

For the third year in a row, CPM is proud to sponsor the 2010 Cossack Art Awards, the richest regional acquisitive art awards in Australia. This year's winners, including the winner of the CPM-sponsored category Coastal Scenes / Activities, will be announced on 17 July. The public can view entries at the Cossack Bond Store from 18 July to 8 August.

At this time of year many people enjoy the recreational areas around the Sino Iron site. CPM has also recently partnered with the organisation 'Leave No Trace' to promote responsible outdoor travel and recreation. Leave No Trace will be educating CPM employees and contractors so they are better able to enjoy their recreational time safely and responsibly, with minimal environmental impact.



Second Work Ready program begins

CPM's second group of Indigenous Work Ready program participants recently started at the Roebourne TAFE. It follows the success of 2009's inaugural Work Ready program.

The group of seven will spend 13 weeks in the comprehensive program developed by CPM and the TAFE, which aims to prepare people from the project's three Traditional Owner groups for CPM's workforce.

During the program participants complete a TAFE Certificate I in Industrial Skills, obtain their safety awareness Blue Card, attend an Indigenous Cultural Awareness session and take part in a wellness program. Throughout the course, a CPM mentor stays in touch with the participants to help bridge the gap between study and the workplace.

The graduates will follow in the footsteps of the first group, which included Jordan Maher who was named Roebourne TAFE's 2009 Aboriginal and Torres Strait Islander Student of the Year. Jordan was initially employed as a Fencer before successfully gaining an apprenticeship in fabrication with CPM in December 2009.

HR Manager Indigenous Employment Linda Rogers has been coordinating the program and says it is a clear demonstration of CPM's commitment to the Traditional Owners.

"The Work Ready program will provide long-term benefits to local Indigenous people through a career pathway with the company, and we're pleased to see that taking place with Jordan and others from the program," Linda said.



Inaugural Work Ready graduate Sherona Boona started as a Ranger and now works in Administration

Project highlights

- Bulk earthworks are nearly complete in the Port area, and more than 4,000 Core-Loc concrete armour units have been installed on the breakwater. The Module Offloading Facility (MOF) is receiving modules, and the first stacker has arrived.
- Work on the East/West site access road off North West Coastal Highway is close to completion, and the first fuel has been delivered to tanks at the fuel farm. Fifteen of the 90 power line towers have been erected, and 72 tower foundations constructed.
- The first Autogenous Grinding (AG) mill arrived at site and was successfully lifted onto its foundation in the concentrator area near the first ball mill. The second ball mill pre-assembly is complete, and workshop construction is well under way for the pebble crusher and magnetic separation areas.
- In the mine pit, the first and second crusher pocket slots have been completed and are ready for the first crusher to be installed. Bulk earthworks for the conveyor area are nearly complete.
- At the power station, two of the seven gas turbines are ready for commissioning, as is the water treatment plant. Installation of the first two heat recovery steam generators is nearly complete, and the 220kV switchgear is undergoing functional testing.
- There are now more than 2,800 rooms available across the four accommodation villages in and around the project site. Construction is continuing at Eramurra Village where 1,630 rooms have been installed, of which close to 400 have been completed and are occupied.

Partnership to provide Indigenous business opportunities

CPM has entered into an initial one-year partnership with micro-finance provider Many Rivers Opportunities (MRO).

MRO provides small business development support and micro-finance to individuals wanting to develop their own business.

"Many Rivers has been working internationally for decades and has helped many people to start successful small businesses. We are really pleased that they are now operating in the West Pilbara," said Jane McGuire, CPM Senior Corporate Affairs Advisor.

The partnership between CPM and MRO is part of the company's Aboriginal business development program and will assist MRO to establish a presence in the communities in which CPM operates.



Signing the Many Rivers Opportunities Partnership (from left) Leigh Coleman, David Bagheri and Peter Chadwallader from MRO and Jane McGuire and Warren Fish from CPM

Sino Iron project visitors

Four important groups of local, national and international visitors toured the Sino Iron project during May and June.

The visitors included CITIC Pacific Chairman Chang Zhenming and CITIC Pacific Managing Director Zhang Jijing, representatives from the National Resources Sector Employment Taskforce including the Hon Gary Gray MP, Minister for Indigenous Affairs Kim Hames and students from the Clontarf Foundation's Karratha Academy.

These four groups toured the project site, speaking to employees and contractors about construction activities. The students from the Clontarf Foundation, who were onsite to learn about careers in mining, received a special up-close mining experience when Michael Heseltine, Superintendent Civil Works and Mine Services put them in the 'hot seat' with a haul truck driver working in the pit.

All the visitors were impressed by the project with the Clontarf students summing up their experience as simply "Awesome!"



Clontarf Foundation students with Michael Heseltine, Superintendent Civil Works and Mine Services



CITIC Pacific Chairman Chang Zhenming (ninth from left) and CITIC Pacific Managing Director Zhang Jijing (seventh from right) with CPM and MCC management

Cael's cause

In April, CITIC Pacific Mining (CPM) employees and contractors at the Sino Iron project showed their generosity.

Together they donated \$33,500 for McConnell Dowell contractor Stu Bennie, whose grandson Cael needs specialised medical equipment in order to return home from hospital.

During a fun-filled evening, 'The Beakers' played while raffle tickets were sold and auctions were held for prizes donated by local businesses. Contractors MCC and Northrock each donated \$10,000.



Emma Bennie (Stu's daughter), Kelly Oatway, (Stu's daughter and Cael's Mum), Stu Bennie, and his brother Rick at the fund raiser organised by McConnell Dowell

Mine Challenge a close shave

In March, CPM employees and contractors participated in the Leukaemia Foundation's World's Greatest Shave Mine Challenge.

Targeting the Australian mining and energy sector, this year CPM's challenge was to exceed the \$30,000 raised in 2009. With a staggering total of \$53,074, CPM achieved 3rd place in Western Australia and 12th place nationally. A fantastic result!



Nova radio's Nathan and Nat congratulate CPM's Andrew Walden and Chris Browne - photo courtesy of absoluteandalive.com.au

Gaelic football fun in Roebourne

As part of CPM's partnership with the Clontarf Foundation, Sino Iron project employees and students from Clontarf's Karratha and Roebourne academies recently enjoyed a game of Gaelic football and a community barbecue at Roebourne Oval.

On the field each team was made up of a mix of students and CPM employees. While many goals and points were scored, in the end a draw was declared.

Clontarf uses football to help young Aboriginal men develop life skills and improve their education outcomes and employment prospects.

CPM considers the partnership an important part of its long-term commitment to supporting Indigenous communities in and around Karratha and Roebourne, in particular the families of the Traditional Owners of the Cape Preston area.



Community Relations Advisor Renae Rutherford flips the coin at the match

FeNaCING Festival fun!

Visit the CPM stand at this year's FeNaCING Festival on 31 July and 1 August and test drive a 240 tonne dump truck using our amazing driving simulator!

CPM is a major sponsor of the event, and our employees and Magnetite Man will be on hand to talk about Australia's largest magnetite project.

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