



Brightwater

BRIGHTWATER NEWS

ISSUE 6 WINTER 2011

CONCEPT

DESIGN

MANUFACTURE

INSTALL

COMMISSION

OPERATE

INNOVATIVE SOLUTIONS TO INDUSTRY



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Brightwater Services New Christchurch Branch

Brightwater Services recently announced the establishment of a dedicated Services branch located in Christchurch. The new branch is based at Brightwater's Harewood facility. This gives the division greater scope and capacity to increase its operations in the city as well as providing larger resources and support to projects that Brightwater Services is currently undertaking.

Recently appointed Services South Island Operations Manager, David Richardson is heading up the Christchurch Services branch.

"There is a huge amount of work to be done as part of rebuilding the Christchurch infrastructure and Brightwater Services is intent on playing a key role in contributing to the rebuild. The move will also provide us with greater capacity to extend our service offering into the lower half of the South Island," said David.

For more information on David Richardson please read the article on his appointment on page 4. 



Brightwater's Christchurch facility



Madill Workshop attendees at Danny Arbuckle's Logging Gang RAL86 in Eastern Bay of Plenty

Brightwater and FFR conduct Madill 124 Innovations Workshop

Increasing productivity and reducing costs of operation in cable logging for both logging contractors and forest owners were the key objectives of a recent industry led workshop hosted by Future Forests Research Ltd (FFR) and Brightwater Services.

Twenty four attendees including logging contractors, forest owners, harvest managers, as well as employees from engineering companies and industry research organisations participated in the two day workshop.

The workshop was the first collaboration of its kind for Brightwater Services and FFR. Future Forests Research is leading a business plan aiming for substantial productivity gains through improved harvesting technologies. The business plan, involving a Government/industry partnership of up to \$6.5 million over the next six years includes among other projects, the development of an innovative cable yarding system.


FFR Harvesting Theme Leader Keith Raymond said, "The opportunity to partner with Brightwater Services in the development of new technology for cable logging, incorporating remote control and high speed grapple yarding extraction, will produce a change in the way we log our steep country."

Brightwater Services success is built on providing innovative solutions to its customers. Previous exchange rates made the Madill product commercially unviable in many instances for the local market. With the uplift in the forest industry and the increased requirement for efficient and reliable cable logging equipment, Brightwater recognised the opportunity to manufacture the premium Madill product in New Zealand. Brightwater now holds the manufacturing licence for all Madill products throughout Australasia, the South Pacific, Papua New Guinea and Indonesia. The first Madill machine to

be manufactured by Brightwater will be a Madill 124 Swing Yarder, due for completion later this year.

One of the primary aims of the workshop was to engage key players in the forest industry and explore potential improvements for Brightwater's Madill Swing Yarder. Over the course of two days, the workshop uncovered a number of potential enhancements for the Swing Yarder. These enhancements include: access for servicing, location of components, increased compressed air supply and possible cooling advancement. All of these enhancements can be made without jeopardising the overall integrity of the Madill machines.

According to Brightwater Services General Manager Mitchell Easton, there was also a keen interest to capture performance and maintenance information, enhancing the management of the asset, machine maintainability and improved productivity.

"Implementing this kind of technology will enable us to demonstrate the significant difference between old machines in the field and the new Madill machines. This will also be supported by a scheduled and managed service contract," said Mitchell. 



Madill 124 Swing Yarder in action

Chairman's Review 2010/11

The last year has been another successful one for the Brightwater Group. Despite difficult trading conditions which caused delays to some major projects and capital plant investment decisions. Thankfully the projects have largely been deferred, not cancelled and we enter 2011/12 confidently and with strong prospects.

Highlights in the year included meeting our principal safety objective of 'zero lost time injuries' for the year, the successful completion of the Stockton Coal project for Solid Energy, the acquisition of Gray Brothers Engineering Limited on the West Coast in New Zealand, the establishment of the Brightwater Services and Manufacturing Divisions, and the winning of the prestigious Australian Bulk Materials Handling Environmental Award for the design and build of the Plantation Energy Wood Pellet Facility at Albany Western Australia.

Achievement of these milestones, particularly the health and safety milestone was the result of a strongly committed effort from our growing workforce who continue to deliver "the Brightwater solution" with innovation, passion and integrity—all values engraved in the Group's core values.

We look forward to the challenges in 2011/12 knowing that the economic conditions in our Australasian markets are still difficult. Bathurst Resources Ltd has appointed Brightwater Engineering to their Buller Coal Project which builds on our successes at Pike River and Stockton and will utilise our increased presence on the West Coast. We are making good in-roads into the Australian aggregate sector with projects on hand for Barro Group and Holcim.

In May, Warren Arthur, Group CEO left the company to return with his family to live in Australia. Warren was our first Group CEO and played a significant role in health and safety improvements, adoption of core values and strategic planning during his two years here. We wish him well in the future. A replacement appointment is expected to be announced shortly.

Finally I would like to thank all our customers and staff for their continued commitment and support throughout this past year. This has been a difficult year in many respects, not least for those staff indirectly affected by the Pike River mine tragedy and the Christchurch earthquakes. Our thoughts are with you. **B**



Mike Simm, Chairman

Kaituna Saw Mill Bin Sorter

Brightwater Services has recently completed the Kaituna Saw Mill Bin Sorter project in Marlborough. The project was undertaken for Nelson Forests Ltd and included the installation of a bin sorter, complete with an enclosed building, followed by a plant shutdown to integrate the bin sorter with the existing part of the saw mill.

The project took approximately six months to complete, with up to 14 Brightwater Services staff working on the site. Shane King was the project supervisor and to his credit there were no LTI's, MTI's or any incidents at all during the 13,500 man hours that were undertaken to complete this project. **B**



Kaituna Mill Bin Sorter during installation

CCC Wastewater Treatment Plant



One of the four clarifiers being repaired

The Christchurch earthquakes have not only created continual disruption and displacement for many Christchurch residents; they have also caused significant damage to the infrastructure of the city.

Currently one of Christchurch City Council's most pressing sanitation issues is the wastewater treatment plant at Bromley which experienced significant damage to the four clarifiers during the main February earthquake. These clarifiers separate solids from the treated wastewater before it is discharged to the oxidation ponds and then to Pegasus Bay via the ocean outfall. Without the clarifiers in operation the solids loading on the ponds has increased significantly increasing the risk of odour problems from the oxidation ponds. The major disruption to the clarifiers included damage to the concrete structures as well as to the internal rotating agitators that collect sludge from the clarifier base.

Engineering consultancy company Beca contracted Brightwater Services to carry out repairs to the wastewater treatment plant clarifiers by re-establishing the central support towers, reconditioning the sealing rings and building new Unitubes (sludge collectors), replacing the existing damaged units.

The scope of the project required Brightwater Services to utilise resources from all three divisions of the company. The Christchurch based Manufacturing division repaired parts that were damaged and fabricated new ones. Brightwater Engineering's design office redesigned the major components for the four clarifiers. These components are being built in the Brightwater Engineering workshop located in Nelson. The current aim is to have two clarifiers operational as soon as possible so that the sludge recycling processes can be restored. Once those two are back to full capacity the remaining two clarifiers will also be repaired. **B**



CCC Plant birds eye view, ©2010 Google, ©2011 Whereis® Sensis Pty Ltd

New Brightwater Business Development Manager

In April, Brightwater welcomed David McGregor to the company as the Group Business Development Manager.

David has extensive experience in Business Development and Management having previously been the Australasian General Manager for RCR Energy Systems. His strengths are in his professional approaches to business, the customer and associated processes. David's role will initially focus on growing Brightwater operations in Australia.

"David has extensive experience in the energy sector but also a strong grasp of the concepts of Brightwater's core business and we are very pleased to have David on board in this new and pivotal role," said Mike Simm, Brightwater Chairman. **B**



David McGregor

Brightwater Undertakes Rapid Response Engineering Project

It's never easy picking something up from a difficult place; especially when that place is the bottom of the ocean.

However that was the task recently facing one of Brightwater's oil and gas customers. Off the coast of Taranaki, in rough sea conditions, a vital piece of equipment had to be recovered from the seabed for repair. This subsea unit weighed around 85 tonnes and was of a unique design which required the manufacture of a custom made lifting clamp.

As part of this project, Nelson based oil and gas offshore support company UNIMAR tasked Brightwater Engineering with finding an engineering solution and a local contractor to manufacture a hydraulic clamp to help recover this piece of subsea equipment. The lifting operation was to be carried out onboard UNIMAR's Multi-purpose Support Vessel the Marsol Pride some 40nm offshore.

After a Perth based third party developed the vital design characteristics, the resulting hydraulic clamp was fabricated in Brightwater Engineering's workshop from Grade 350 plate, with thicknesses up to 50mm. The weld sizes required the completed fabrication to be post weld heat treated (PWHT) to remove any residual stresses from the manufacturing process. This involved mobilising specialised heating equipment and a portable furnace from Taranaki to Brightwater Engineering's Nelson workshop facility. After PWHT, the clamp was final-machined and assembled, and to remove risks, the hydraulic closing and locking cylinders were trial-operated.



The finished Hydraulic Clamp before testing

To comply with the regulations for lifting equipment, the clamp needed to be proof load tested in two directions with a test load of 100 tonnes. This also required the design and manufacture of a test block to simulate the top cylindrical portion of the subsea unit. Nelson's cranes were unable to perform this operation, so Workshop Manager, Marcus Foster, drove through the night to take the clamp to Christchurch, where it was successfully tested and then dispatched to the client in Nelson for loading onto the Marsol Pride.

Brightwater's team worked around the clock to supply the clamp in just eight days from receipt of order. The client was suitably impressed with the rapid response and smooth coordination applied to this mini project, and passed on their appreciation to the team. 📌



Hydraulic Clamp being tested

Vietnam Sander Installation Supervision

Vina Eco Board Co., Ltd. a wholly-owned subsidiary of Sumitomo Forestry Co., Ltd. based in Tokyo, Japan is installing a Greenfield Particleboard (PB) Plant in Long An Province, South Vietnam, near Ho Chi Minh City.

Nelson Pine Industries Ltd recently installed and commissioned a Steinemann 14 Head Satos Plus High Speed Sander to replace their original MDF Line 2 Steinemann 6ft wide sander.

Brightwater Engineering was engaged to modify the Line 2 sander to accommodate 4ft and 6ft wide panels so it could be included in Sumitomo's Vietnam PB project.

The modifications included automatic panel width adjustment and a redesigned Panel Handling System for Sanding 4ft and 6ft panel widths. These were carried out and the line was fully tested before being dismantled and packed into containers for shipment to Vietnam.

Brightwater Engineering was also contracted to Vina Eco Board Co., Ltd. to provide experienced supervisors to oversee the unpacking and installation of the complete sanding line for the 'Particleboard Plant Project' in Vietnam. Brightwater Engineering staff: Jeremy Weir and Todd Ellis were selected to oversee this project due to their knowledge of this particular line and their recent experience installing the latest new sander at Nelson Pine Industries Ltd. The installation period began on the 2nd of May and is expected to take 13 weeks to complete. 📌



Line 2 Sander at Nelson Pine Industries Ltd before it was removed

Ligna

Hugh Grey and Brightwater Engineering's Alan Brill attended the recent Ligna Fair held in Hannover, Germany.

Ligna is Europe's leading expo for woodworking and wood processing. It is held every two years and is a significant trade expo for the forestry and wood processing industries. Some 1,700 international suppliers showcased their latest products over a five-day period to 90,000 visitors from over 80 different countries.

Ligna is also a good litmus test to measure the worldwide industry outlook for the next two years. In terms of the current state of the worldwide industry there appeared to be two contrasting states emerging from this year's expo; those that are still quiet from the effects of the global financial crisis and the new wave of suppliers that are very busy and experiencing significant growth.

"From my discussion with various companies, colleagues and suppliers at the event, early indications are that the significant downturn in which the forestry and wood related sectors have been experiencing in Europe looks to be abating," said Alan Brill.

"We expect to see that same improvement in the Australasia forestry and wood processing sectors in the near future which is great for our Australasian clients and the worldwide industry as a whole," he added. 📌

Australian Bulk Handling Awards Sponsorship

Brightwater is pleased to announce the sponsorship of the Innovative Technology Award at the 2011 Australian Bulk Handling Awards to be held in Sydney on October 26.

Last year the Brightwater Engineering division was the recipient of the Australian Bulk Handling 'Environmental Project of the Year' Award for the Plantation Energy Port Albany Wood Pellet facility in Western Australia. This year is a chance for Brightwater to support the awards in recognition of the significance they play in celebrating the collective achievements of the industry.

Mathew Fletcher, General Manager of Brightwater Engineering's Western Australian office said, "the company is pleased to announce that it is a major category sponsor for the 2011 Bulk Handling Awards. We see this as a fantastic strategic opportunity for Brightwater, because it is truly aligned with all of our core values, goals and aspirations." 📌



Mathew Fletcher accepting last year's Bulk Handling 'Environmental Project of the Year Award'

Brightwater Forest Equipment

Brightwater Services designs and manufactures engineered products specifically for forest industry customers.

Brightwater Services provide purpose built and cost efficient protection packages and OEM modifications for a full range of machine conversions for the forest industry.

B&M Processors jointly owned by Nigel Bryant and Kevin McLean recently engaged Brightwater Services to fully protect their new CAT 336 processor. The new machine was fitted out with catwalks, cab riser, high lift track guards, top roller upgrade, under body guarding, heavy duty body panels and engine hood protection. The new hydraulic hood protection provides excellent access to the engine compartment and is an example of our ability to design and customise to meet our clients needs.

"The forest industry is a demanding industry and Brightwater Services ability to provide efficient and effective service and products is a key factor to keeping our customers operating profitably. We have the skills and the expertise to get the job done right first time," said Mitchell Easton, Brightwater Services General Manager.

Also recently completed were Hyundai forest conversions for Mt Heslington and Dean Blackwall. Both were fitted with Brightwater's new Roll Over Protection Structure (ROPS) and purpose built guarding package. This package is designed specifically to be cost effective as well as compliant with all OSH and AS/NZS standards enforced here in New Zealand. Additionally the Brightwater Services team ensure the designs provide uncompromised operator comfort from the standard OEM design and user friendly maintenance access. 📄



B&M's New Cat 336 Fully Guarded

Brightwater Hosts Sydney Cocktail Function

Brightwater Group Board of Directors and Executive Management hosted a client cocktail function on Thursday 30th of June in the Bligh room at Sydney's iconic Rockpool Bar and Grill.

The event was an ideal opportunity to further strengthen Brightwater's relationships with our key Sydney based clients and business associates. The event was a great success and we thank everyone for attending and making the function such an enjoyable evening. 📄



Guests enjoying the evening

Rockcycle Boosts Production With SCS 205S Screen



SCS 205S Screen in action

Brightwater Manufacturing has recently delivered a new SCS 205S Screen to Rockcycle Crushing.

The SCS 205S unit has significantly increased production of G-Fill product, at the customer's joint-venture site at Dysart in Central Queensland.

Rockcycle Director, Dale Spedding said the SCS 205S produces G-Fill of 32mm minus aggregate which is a lower grade re-sheeting material used in roading. "The 205S is in a closed-loop circuit with an impactor and is pumping out about 380 tonnes per hour, so we are pretty happy with the output," said Spedding.

He says the 205S is an extremely user-friendly machine, it is well-built and safe to use. "We won't be going back to the machines we used to run. For the price, we are getting a very

cost-effective screen. It is simple to operate, robust and very versatile."

"Sometimes it took us three quarters of a day to change screens on our old equipment, now if we want to change product it can take two of us just two hours to change-out the screens. This makes a big difference to our operation; we have more productive crushing time and a lot less down-time."

"Set-up is much easier as well. One guy can have it set-up and operational in around 15 minutes, which is a big saving in labour costs for us."

Brightwater Manufacturing General Manager, Tony Small said the SCS 205S is a highly advanced screening unit, which is capable of screening a diverse range of material in the most difficult conditions. "The 205S is designed to meet the demands of high throughput operations in quarrying, crushing circuits, sand and gravel, and coal screening. It is available in 2 and 3 deck versions and can also be supplied as a rinser." 📄

New Brightwater Services South Island Operations Manager

Brightwater Services was pleased to announce the June appointment of David Richardson as South Island Operations Manager for the Brightwater Services division.

David's role is to establish a branch in Christchurch as well as to further develop Brightwater Services South Island services operations.

David comes to Brightwater having most recently held a project management position with Transfield Worley. His previous experience also includes 11 years based in Thailand where he held Senior Executive, General Management and Development roles within a group of companies, executing projects and providing multidiscipline maintenance and manufacturing services to heavy industries throughout Asia. Prior to moving to Thailand, David held positions in the oil and gas industry with Robt Stone and New Zealand Refinery.

"It was a great opportunity for me to join the Brightwater Team and to play a role in the growth of the Group, in particular the Services Division. The opportunities here are huge for a quality services provider and I'm confident that my background and experience will add value, not just within Brightwater Services but also for our customers," said David.



David Richardson

"David's trade background coupled with many years of senior management experience in our target industries makes him a very relevant fit with our services and projects growth aspirations. The Brightwater Services strategy to develop a nationwide service branch network and the very best trades and workshop services is also a natural fit for David and his leadership style," said Mitchell Easton, Brightwater Services General Manager. 📄



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