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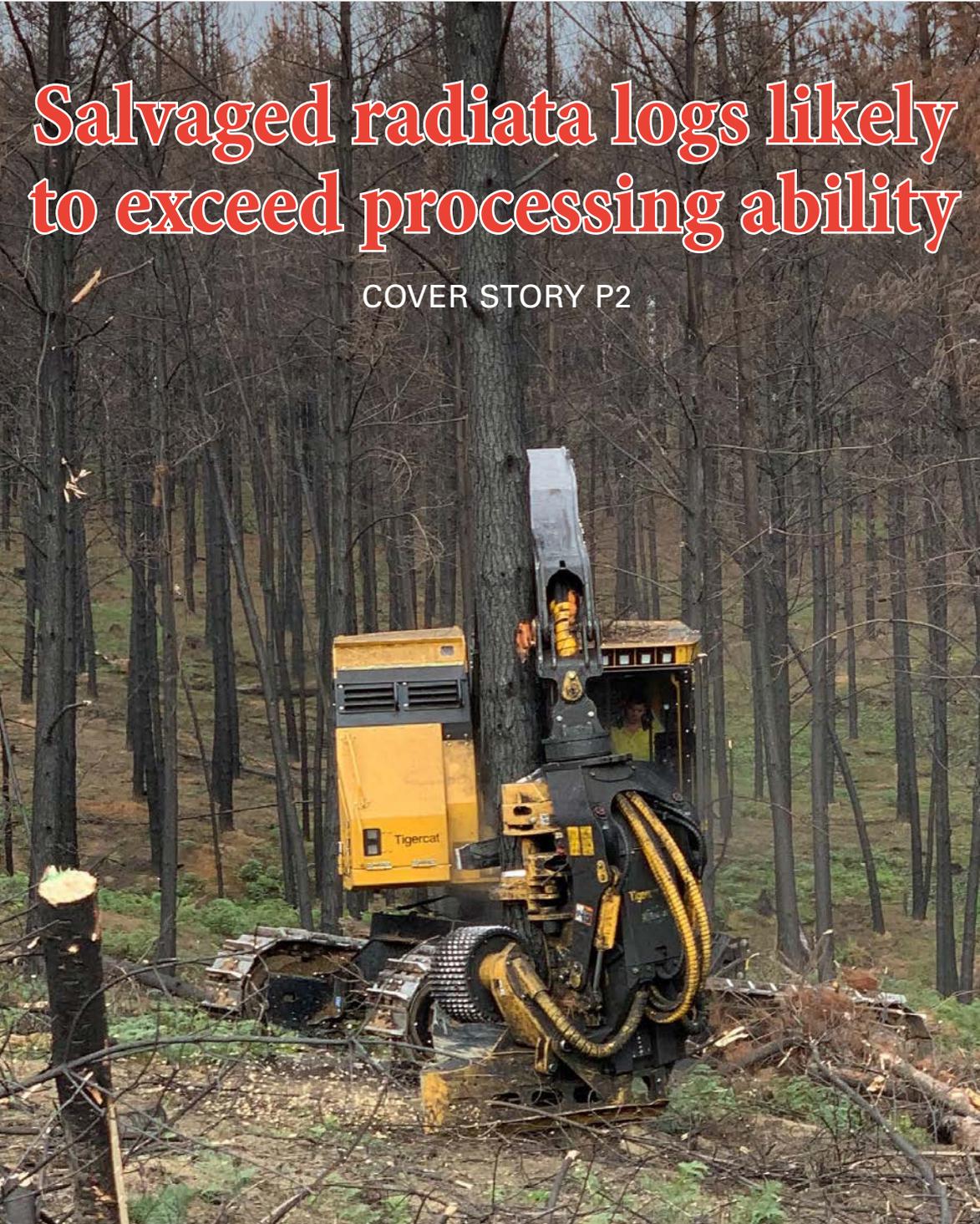
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Salvaged radiata logs likely to exceed processing ability

COVER STORY P2



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New study shows bushfires will have long-term impact on softwood supply

Salvaged radiata logs likely to exceed industry's processing capacity

THE summer bushfires that caused large-scale loss of radiata pine plantations in southern New South Wales and northeast Victoria will have long-term ramifications for softwood log supplies across Australia.

The fires destroyed more than 40% of the radiata plantation estate in both states.

Salvage log availability will exceed the capacity of industry to process before timber quality and value deteriorates beyond the point where salvage is neither safe nor economic.

Moisture content and blue stain are major determinants as processing drier logs



Setting traps... monitoring bark beetle infestation in NSW, part of a study to obtain quantitative data to guide log harvesting operations and provide a better understanding of the risks to log supply from future bushfires.

creates multiple processing issues for sawmills.

In association with industry, Forest and Wood Products Australia has commissioned a study to monitor the effect of time-

since-fire on sawn timber attributes exiting the sawmill in an effort to obtain quantitative data. This will help guide current log harvesting operations, as well as providing a better understand of the risks to log supply of future bushfires.

The study was coordinated by Geoff Downes, senior scientist at Forest Quality, a research and service provider based at Franklin in southern Tasmania.

Two sites were selected for study that provided

sufficient volumes of timber at each for four sequential harvests of around 1000 cub m logs over a 12-month

“MOISTURE CONTENT AND BLUE STAIN MAJOR DETERIMENTS

Cont P.3



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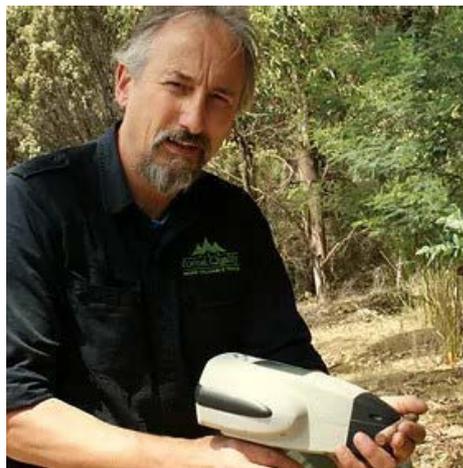
From P 2

period. Plantation growers undertook pre-harvest assessments of timber quality and arranged harvest and delivery of logs to sawmills.

Dr Downes said six months into the study – and despite the consequence of Covid-related travel restrictions – three mill trials had been completed. Two trials were conducted by Forestry Corporation of NSW and AKD Softwoods and one by HVP Plantations and Hyne Timber. The latter included a comparison of two different fire intensities.

“Minimal effects on timber

“ HARVESTING ISSUES RELATE TO HANDLING OF DRIER LOGS



Dr Geoff Downes... comparing different fire intensities.

quality have been observed to date,” Dr Downes said.

“Blue stain impacts are relatively low, and moisture contents seem to be little affected.”

He said green timber density distributions of sawn boards indicated no change over time, either between trial results or in comparison

to general sawmill production run data.

As logs dry it is expected that the moisture content responding to saturated fully sapwood boards will reduce and be comparable to full heartwood boards. By the time that occurs, sapwood blue stain is expected to be the main determinant of the value of

continued sawn timber processing, together with the harvesting issues related to handling drier logs.

These conclusions are supported by additional field sampling across 15 sites in New South Wales by Forest Science.

Little change in moisture content has been observed

either up the stem or radially between heartwood and sapwood.

Dr Downes said the study also assisted in confirming that, in comparison to general sawmill production, at this stage, timber produced from salvaged logs was of similar quality. However, it was expected these changes would begin to be observed with the onset of spring, he said.

Mr Downes spent 20 years as a senior principal research scientist with CSIRO. His main research interests revolve around wood quality issues in plantation forests, particularly in regard to site and climate effects on wood formation.

On the cover: Salvaging burnt radiata pine from Forestry Corporation of NSW plantations at Tumut for pre-harvest assessments of timber quality

Cargo shortage, container build-up a new crisis for Covid-hit Victoria

VICTORIA'S freight industry faces a cargo storage crisis as warehouses and container parks overflow with goods shipped from China that can't be sold at stores because they are shutting down as a result of Covid-19.

In about a month's time, the state is expected to face a serious capacity problem, as builders and the construction industry brace for a major slowdown as stage four restrictions kick in.

The Port of Melbourne is urgently searching for back-up sites to store 6 m shipping containers, with at least two export container parks already full.

In Australia's largest cities, an estimated 42% of items used in households arrive via shipping container.

“Covid-19 is shifting the way industries work,” says Standards Australia head of stakeholder engagement Daniel Chidgey. “As borders closed, we faced challenges with global supply chains that have been in place for decades.”

He said now was an opportunity to reshape Australia's supply chains to build resilience and through focusing on the right areas, accelerate our economic recovery.

To pave a way forward for Australian industry, Standards Australia has published a discussion paper calling for feedback on how standards might shift in response and looks forward to discussions with industry and government as this process commences.

The united voice for Australia's forest industries



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Sarah Harvie



Rob Hescock



Paul Heubner



Mike Lawson



Phil Mason



Darren Shelden



Tony Price



Owen Trumper

New voice for Victoria's forest value chain appoints 23 foundation members

TWENTY-THREE industry leaders are foundation members of the newly-formed Victorian Forest Products Association.

The association will span Victoria's forest industry value chain including plantations, native forestry operators, sawmills and pulp and paper making.

An interim governing council has been appointed and comprises Sarah Harvie,

Opal Group, Rob Hescock, Hancock Victorian Plantations, Paul Heubner, Allied Natural Wood Exports, Mike Lawson, SFM Environmental Solutions, Phil Mason, New Forests, Darren Shelden, Australian Bluegum Plantations, Tony Price: Midway Ltd, and Owen Trumper, AKD Softwoods.

Chair of the Victorian Association of Forest Industries Craig Dunn said VAFI had been the voice of



Craig Dunn... VFPA will bring a new approach and broader industry representation.

manager, public relations and sustainability at Opal, the new renewable packaging company which is part of the Nippon Paper Group.

Australian Forest Products Association CEO Ross Hampton said forest industries employed thousands of men and women in Victoria.

"At a time when so many jobs are being lost, our industries can play a big role in Victoria's post-pandemic economic recovery if they are enabled to," Mr Hampton said.

"This new body will turbo-charge representation for all our industries and help make the case to policy makers that now more than ever our sustainable, renewable forest industries should be backed to deliver vital growth and prosperity."

the industry for many years.

"The new association will bring a new approach and broader industry representation during these challenging times," he said.

"VAFI will continue to operate in parallel until the new association is up and running to ensure a seamless transition."

Mr Dunn is general

Surge in residential land sales

HOUSING finance figures released this week show that lending for the construction of a new home rose in July for the first time since February, to the highest level in two years.

HIA chief economist Tim Reardon said not only did the data show there had been an increase in the number of loans for the construction of a new home, there was also

an increase in the purchase of new and established homes.

"There has been a tangible improvement in sentiment and confidence in the housing market," he said.

"Most significant, the data shows that there has been a 30% increase in the number of loans issued for the purchase of residential land for the second month in a row.



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New appointments at the hub of Green Triangle's forest industry strategic plan

MOUNT Gambier-based mill owner Ian McDonnell is the new chair of the Green Triangle Forest Industries Hub.

The NF McDonnell and Sons director was elevated from his role as deputy chair, nominated at last week's board meeting following the resignation of inaugural chair Linda Sewell, due to her departure as CEO at OneFortyOne.

OneFortyOne executive general manager Cameron MacDonald has assumed the role of deputy chair, joining the board as the company's representative.

Mr McDonnell, who is a third generation sawmiller with more than four decades of industry experience, said the board was looking forward to continuing to advance the objectives set-out in the hub's strategic plan and ensuring the industry emerged strongly from the coronavirus pandemic.

"Our first-of-its-kind plan for the Green Triangle provides a clear road map to sustainably



Ian McDonnell... ensuring industry emerges strongly from Covid-19.

grow the sector with a number of key opportunities being explored across the supply chain," he said.

"This includes undertaking extensive work into better understanding forestry water use and how we can harness waste water from the drainage network to support the planting of more trees, and more broadly support other agriculture bases and other water dependent ecosystems."

"The coronavirus pandemic has further highlighted the nation's dependence on the forestry sector through the need for additional packaging



Cameron MacDonald... solutions to forest industry challenges.

and general wood products, which the Green Triangle will play a major role in delivering in the long-term as we explore new domestic value-add opportunities."

Cameron MacDonald, who has more than 30 years of industry experience, manages OneFortyOne's Australian operations, overseeing the strategy and management of the plantation estate, Jubilee sawmill and sales.

“CLEAR ROAD MAP TO SUSTAINABLE GROWTH”

He said he was looking forward to contributing to the hub's leadership and driving research outcomes that help find solutions to forest and timber industry challenges.

"Forestry is such an important part of Australia's primary

industries; the industry delivers renewable, sustainable products that support housing, agriculture and consumer needs. The future success of our sector depends on us being able to find opportunities to grow more trees, improve transport infrastructure and develop innovative wood fibre products," Mr MacDonald said.

"The forest industries hub is an exciting opportunity to work together to ensure future generations can benefit from the jobs, economic output and products offered by our industry."



Hyne Timber Glue Laminated Structure at Mon Repos Turtle Centre, Queensland

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China's road to ruin for rosewood in plundered forests of Africa, SE Asia

A CLAIM by a respected global supporter of sustainable forest management that China is pillaging thousands of hectares of rosewood timbers illegally in Africa is linked to President Xi Jinping China's Belt and Road Initiative.

China banned logging its natural forests three years ago and has since exhausted hardwood stocks in southeast Asia with imports of African rosewood climbing to 700%.

Naomi Basik Treanor, senior manager, forest policy and trade with US-based charity Forest Trends, says many rosewood areas in southeast Asia are now commercially extinct.

"Because African rosewood is of lower grade, it's cheaper and in such high demand that it is now the most traded in the market," Ms Treanor said.

"Nigeria had accounted for 40% of all China's hardwood imports before 2017."

An investigation by Environmental Investigative Agency in Nigeria found illegally-harvested timber amounting to \$US1 billion has been shipped secretly to China in the last four years.

"The level of indebtedness, which African countries have to China as a result of the Belt and Road Initiative, makes it easier to persuade governments to turn a blind eye," Ms Treanor said.

"If both sides are invested there is going to be far less



1/ African rosewood (*Millettia laurentii*)... feeding China's hunger for wood.

2/ Naomi Basik Treanor... easier to persuade governments to turn a blind eye.

intervention to stop illegal trading and lot more turning the other cheek."

According to an official estimate, Chinese timber imports from Africa are worth nearly \$US2.2 billion a year, although the number could jump to \$17 billion as the amount of illegal logging increases.

The Belt and Road Initiative is a global strategy adopted by the Chinese government in 2013 to establish maritime trade routes and invest in infrastructure projects around the world, with 125 countries signed up.

The Chinese government calls the initiative "a bid to enhance regional connectivity and embrace a brighter future". But some observers, mostly American, interpret it as a plan for Chinese domination through a China-centered global trading network.

Victorian Premier Daniel



Andrews has been severely criticised over the state's signed deal with the Chinese government to deepen the state's engagement with the controversial initiative.

“A LEVEL OF INDEBTEDNESS TO CHINA

The deal has angered some in the Morrison government who are worried about Chinese influence in Australia, but Andrews, who has been a frequent visitor to China, says the deal is designed to boost the Victorian economy and jobs.

The Premier has committed Victoria to work together with Beijing on future projects for the benefit of both parties. He

will co-chair a group that will meet half yearly.

Considering the Andrews government's announcement to shut down Victoria's native timber industry completely by 2030, with an immediate ban on old-growth harvesting, with devastating effects on thousands of workers and hundreds of communities across the state, it brings into question how future hardwood fibre from well-managed forests will be replaced – and sourced.

Industry will need to maintain vigilance on timber imports which may be brought in from third-world countries with questionable forest management practices to fill the gap created by any closure of Australia's native hardwood forests.

It was noted this week that bamboo screening imported from China by Bunnings was infested with borers and borer dust. The Northern Territory Department of Primary Industries confirmed the infestation.

[Global Trends was founded by forester Michael Jenkins who has received several awards including the Global Leader on Sustainable Forestry and the Chief Global Stewardship Award from the US Forest Service.

The agency promotes sustainable forest management and conservation by creating and capturing market values for ecosystem services, to support innovative projects and companies that are developing these markets.]

SEPT/OCT

Timber Queensland 4-part webinar training program – Understanding AS1684.2.

September 15, 10am-12pm;
September 22, 10-11.30 am;
September 29, 10-11.30 am;
October 6, 10 am-12 pm.
Cost \$200 (inc. gst) \$200, non-members \$250 (inc. gst).
Course must be booked as a whole; sessions are not separately bookable. CPD points available. This is a ticketed course. Register at

www.timberqueensland.com.au

OCTOBER

21st Australian Timber Design Awards – Sydney, NSW, Australia (date and venue to be advised).

Entries close June 1. Voting for the People’s Choice Award is open from August to September. Visit the new awards website for information and registration instructions. www.timberdesignawards.com.au

30: Green Triangle Timber Industry Awards POSTPONED – Barn Palais, Mount Gambier, SA, Australia.

Nominations open 1 June 2020 and close 14 August 2020. For more information visit: www.gttia.com/

MARCH 2021

16–19: DANA New Zealand Forest Industry Status and Outlook Conference and Field Trip – Napier Conference Centre,

Marine Parade, Napier, New Zealand. Website under construction, for further information contact Conference Organiser Julie Bell admin@dana.co.nz

17-19: Doing Timber Business in Queensland – Marriott Hotel, Brisbane, QLD, Australia. State conference, workshops and innovation tour organised by Timber Queensland. Visit www.doingtimberbusinessinqld.com

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SEPTEMBER

27-30: Council on Forest Engineering Annual Meeting – POSTPONED.

Visit www.cofe.org for update.

OCTOBER

21-23: Sustainable Forestry Initiative (SFI) Annual Conference – Vancouver, BC, Canada.

The 2020 SFI Annual Conference will be focused on how forests can make a difference when it comes to so many of the most important sustainability challenges faced in the forest sector and communities. For additional information see: sficonference.org

NOVEMBER

1-5: 3rd DANA African Forest Industry Investment Conference and field trip

POSTPONED – Durban, South Africa.

Possible 2021 conference and field trip - Dates and venue TBA. To register interest as delegate or presenter please email admin@danaevents.co.nz

DECEMBER

7-9: International Forest Business Conference and Tour – Sopot, Poland.

A two-day conference on megatrends that shape forest and wood industry sectors. The event will highlight the transformation of forest-related businesses towards a low-carbon bioeconomy, discuss tensions between sustainability and cost competitiveness, and call attention to new green innovations. Field trip on December 7 to IKEA and Egger mills. The event will welcome institutional investors from

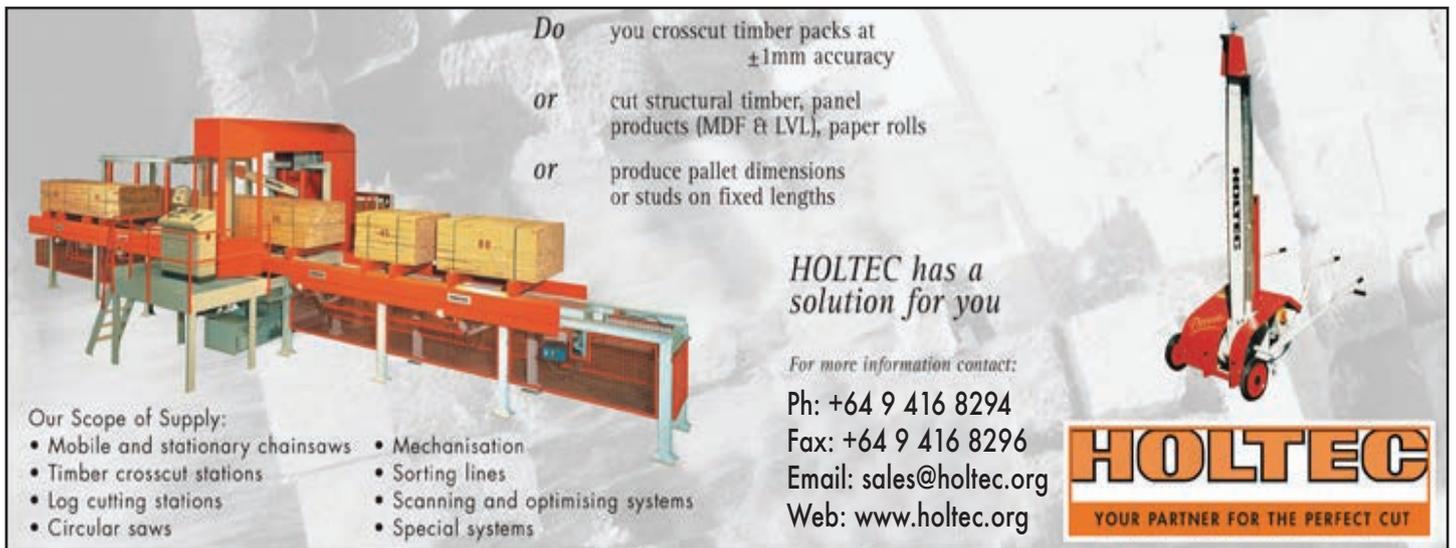
across the globe to discuss investment opportunities in timber to diversify their portfolios and achieve healthy returns. Register at www.fba-events.com or contact karolina@forest-analytics.com

JANUARY 2021

11-14 : World Conference on Timber Engineering (WCTE Santiago 2020) – Santiago, Chile.

Topics include Sustainable Forests for timber production; wood products, connections; timber engineering; timber architecture; building and environmental impacts; policies, education and future trends. For further information see: www.wcte2021.com/

• Please send any events listings to John Halkett via email: johnh@timberandforestrynews.com



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Caboolture mill restarts as AKD maps new growth and doubling of log intake

Additional investment marks strong commitment to industry in Queensland

AKD has confirmed that the Caboolture Sawmill will recommence operations next Monday after a brief closure due to a storage shed fire in June.

The commencement follows the rebuilding of the fuel handling system which will make for a safer and more sustainable business in the long term. In addition, AKD is excited to announce new growth and investment plans for the Caboolture site.

“AKD is incredibly proud of the team that have worked hard to get us to this point, and they will now lead us through this period of growth,” AKD CEO Shane Vicary said.

“Through key investment in additional processing capacity and people, AKD intends on at least doubling the log intake. Working collaboratively with and supported by our log supplier, HQPlantations, this will secure the current jobs as

“CONSISTENT SUPPLY FROM SOUTHERN MILLS



- 1/ Kayla and Parker in dispatch.
 2/ Ray, Samantha and Darcy at the dry mill.
 3/ Thumbs up for Buy Aussie timber... AKD staff Don, David and Chris at the green mill
 4/ Shane Vicary... AKD teams lead through a period of growth.

well as provide additional permanent roles.”

The investment re-affirms AKD’s commitment to the Queensland market and will more than double the volume of timber available for customers, providing security of supply.

To support the doubling of sawmill capacity, AKD is purchasing and installing a new continuous drying kiln to lift drying capacity. This technology is currently deployed at the company’s Colac mill where it has



proven to be most effective at producing a stable and consistent product for the market.

Mr Vicary said AKD would like to thank its loyal Queensland customers for their ongoing support during the fire-related closure.

“We are very proud that we were able to maintain

consistent supply from our southern mills,” he said.

This next step of growth and investment will be aligned with increased supply availability from AKD’s southern sawmills. The company has the capability to increase supply to meet responsible market demand and growth, and service customers seeking supply security.

The company is focused on improving the long-term viability of its Queensland site and meeting market demands.

AKD is committed to the industry in Queensland and encourages responsible sourcing and supply relationships, which is now highly recognised with ‘Buy Local’ market sentiments, which the company is promoting under the Buy Aussie Timber First campaign.

Green shoots in troubled sawmill sector, but NZ is not 'out of the woods' just yet

Signs of life but Covid-impacted global demand for timber remains mixed

DENNIS NEILSON

NEW Zealand's sawmilling industry has taken a beating in recent years, with often small and high-cost mills battling against low-cost competitors in export markets.

Strong log prices in China are setting the market for unpruned logs at least, and external factors such as a surge in low cost European timber shipments resulting from huge swaths of spruce forests dying and accelerated harvesting and processing.

But, in 2020, there are still signs of life ... so far.

Domestically, in spite of Covid lockdown closing the industry for several weeks, housing starts to year end June were a record 27,600 – with reports of strong activity since.

In addition, while no overseas immigration is possible, the reverse also applies and no New Zealanders are leaving, while a flood of Kiwis are 'flying home' from Covid-ravaged Europe and USA. As a result house prices are at record levels (and rising every week), with net migration to June a huge 79,400 taking the population up by 2.1% or 105,500 to 5.025 million.

[To add perspective, we note that the entire NZ population is the same as



1/ **Fingerjointing at the Claymark General Partner's Katikati mill.**

2/ **High quality clear pine timber produced by Claymark.**

release to temper these.

The most "failed"

sawmill in NZ, the eight-owner and seven times failed Prime sawmill in Gisborne looks like it has finally found an owner that will invest and make a success of it.

Kiwi Lumber took a 90-day trial to reopen this shuttered mill, but after only 60 days it has announced it will run the mill permanently, which will employ 50 staff. An initial \$15 million cash injection, partly from central and local

RECORD STARTS IN HOUSING TO YEAR END JUNE

that of Melbourne – although NZers are enjoying a half decent social life this month].

All this has added to a positive tone to the domestic timber sales sector.

Timber exports, however, are more mixed. High demand for clear timber to USA, Europe and Australia is keeping pruned log sawmills busy. But low timber prices in Asian and the Middle East export timber markets have dampened enthusiasm for knotty timber sales.

Three of four stories in the sawmilling sector in the past month have been positive but with one a troubling media

government adds to reports of more substantial upgrades. With ample pruned log supply in this mill's catchment, it has the opportunity to become a major force in future.

Kiwi Lumber also owns two other pruned logs sawmills – at Dannevirke and Putaruru (near the huge Kinleith pulp, paper and plywood complex in the Waikato), and a modern structural sawmill site at Masterton, which

it is expanding.

Also just announced is the successful bid by a consortium led by local businessman Paul Pedersen to take over the failed Claymark Group sawmilling and wood processing operations.

Claymark, which has three sawmills (Thames, Katikati and Rotorua that employ 450 staff) went into receivership in December 2019. The new company, Claymark General Partner Ltd, lists Pedersen and Peter Bridges as 66% shareholders, a US-based company Shelter Forest International Acquisitions with 24% and Auckland company MNF Family Office with 10%.

Pedersen has had decades of wood processing

Cont P 10

From P 9

experience in New Zealand and Australia and has previously co-owned two sawmills.

Possibly linked to this transaction, we understand Pedersen has worked with 'colourful' NZ sawmilling identity Wade Glass to reopen the shuttered Tregoweth pruned log sawmill at Te Kuiti in the King Country.

On a smaller scale but still positive, Auckland-based Pakuranga Timber Products has reportedly taken a lease on the failed and now shuttered Pacific Pine sawmill site at Putaruru. We are unsure whether it will restart the sawmill or reprocess purchased-in timber as it is doing at its Pakuranga complex.

However, to counter this optimism, Australian-based company Timberlink (associated with the huge TIMO New Forests) has



1/ **Weinig Hero... wood processing at Claymark.**
 2/ **Pruned sawlogs used by Claymark mill.**

since it purchased the mill in 2015.

"It has become clear that we need to seriously consider whether the business is sustainable,"

Timberlink CEO Ian Tyson said.

While no decision has been made, it's not looking bright.

Incidentally, the only other sawmill in the Marlborough district where Blenheim is located is owned by another huge Australian TIMO One Forty One plantations. It is not affected by the Timberlink announcement.

So, in summary, while

there are 'green shoots' emerging within the troubled sawmilling sector in New Zealand, which has seen 55 mill closures in the last 16 years, the sector is not out of the woods as Covid-impacted global demand for timber remains mixed, and the New Zealand economy could yet tip over heading past the election into 2021.

Ironically, in the sawmilling

sub-sector with almost guaranteed future success, pruned log mills making clear timber are facing another decade at most of pruned log supply before the cessation of much in-forest pruning in the last five to years will result in a severely 'pruned' high quality log supply.

announced it will 'urgently' review the future of its small Blenheim sawmill which employs 75 staff.

Timberlink says its operations have been negatively impacted by higher log prices, lower Asian timber prices and a strong NZ dollar

“ 55 SAWMILL CLOSURES IN LAST 16 YEARS ”

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Nick, Thiru on right track for sustainability

THE sustainability managers from the construction team behind Sydney Metro Northwest, Australia's largest public transport infrastructure project in recent years have been presented with the 2019 Richard Stanton Memorial Award for Excellence in Sustainable Forest Management.

The award and prize recognises the life of a man devoted to the forest industry, both in Australia and internationally.

Awarded for the first time to joint winners, the award was accepted by Nick Clarke and Thirukumaran (Thiru) Jallendran formerly sustainability managers for the Sydney Metro Northwest project delivering the operations, trains and stations infrastructure.



The prize recognises the significant contribution of both men in achieving what is the largest complex infrastructure project successfully achieving the Program for the Endorsement of Forest Certification and Responsible Wood project certification.

SCS Global Services conducted the certification assessments under the PEFC/Responsible Wood and FSC standards and nominated both men for the coveted prize.

"In many ways it felt like we



1/ Nick Clarke
2/ Thiru Jallendran

were starting from scratch; sourcing industrial scale timber from certified forests was an experience in itself," Nick Clarke said.

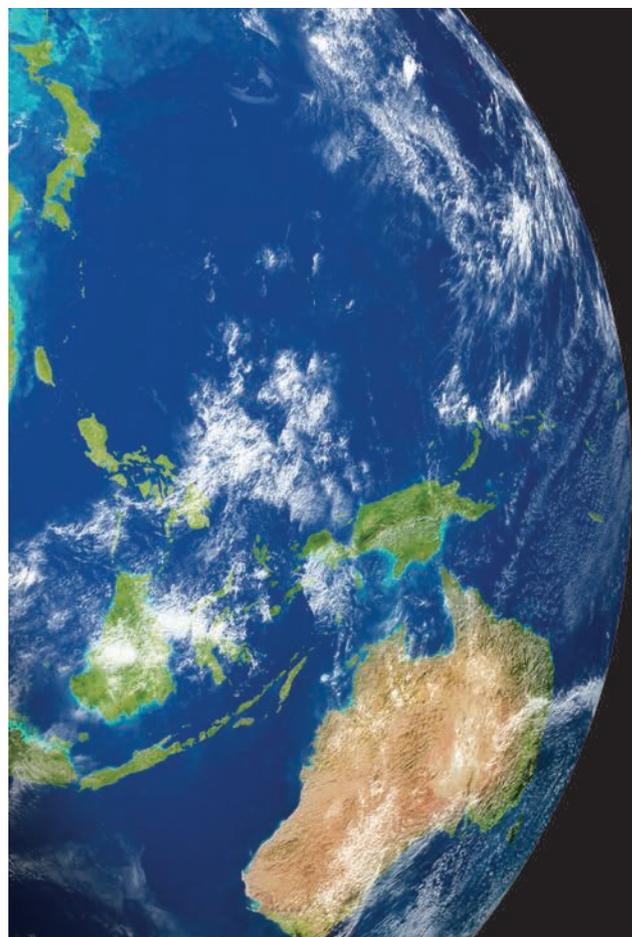
"Wood really is the ultimate renewable. A sophisticated alternative to other materials that use more carbon in their production," he said.

"We met the sawmillers, travelled to the local Australian forests, where timber is grown and harvested sustainably and gained a strong appreciation for

forest-based sustainable management practices. Meeting forest managers in the forest was an amazing experience. It provided the project team with tremendous value."

Responsible Wood opened entries for the 2020 Richard Stanton Award in July. Nominations are open to individuals who have contributed significantly to either forest management or chain-of-custody certification under the Responsible Wood certification program. The award nominees will be those who have contributed to sustainable forest management under AS4708 or chain of custody under AS4707.

Nominations close on October 2. Visit responsiblewood.org.au



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Workshop a guide to PEFC certification

A ZOOM workshop on September 15 will introduce and explain the main changes proposed in the AS/NZS 4708:20XX draft standard, providing the basis for the requirements that forest owners or managers must meet to achieve PEFC certification in Australia and New Zealand.

The session will be chaired by Dr Gordon Duff, chair of the AS/NZS 4708 Standards Reference Committee.

“The Responsible Wood Certification Scheme is recognised as a world leading certification scheme

“WE ARE KEEN TO GET PUBLIC FEEDBACK ON THE REVISIONS



PEFC provides an assurance mechanism to purchasers of wood and paper products that they are promoting the sustainable management of forests.

for natural and plantation forests,” Mr Duff said.

The committee includes a broad range of organisations in Australia and New Zealand involved in forest management, forest research, auditing, government, community, environmental, indigenous and labour unions.

“These organisations are keen to get public feedback on how the revised standard

can be further improved,” Dr Duff said.

Dr Duff, who edits the Australian Forestry Journal, is well versed in corporate governance and has chaired the Tasmanian Forest Practices Authority, the Forest Education Foundation and the Northern Territory Environmental Protection Authority.

Public comment on the draft standard should be

submitted by October 23, preferably using the submission form available from Responsible Wood.

The Responsible Wood Certification Scheme, of which AS 4708 is a key component, is accredited by the PEFC, the world’s largest certification system for sustainable forest management.

The Standard Reference Committee has sought to ensure that the revised standard (AS/NZS 4708) continues to be consistent with PEFC endorsement requirements.

Workshop numbers will be limited. Register using the link <https://us02web.zoom.us/j/7582987172>

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HUNDEGGER TURBO-DRIVE “CUT”

The powerful Hundegger TURBO-Drive has enjoyed tremendous success in the region since its local launch a little over two years ago. Its super-fast operation, flexibility, small footprint (see overleaf) and user-friendly interface makes it the machine of choice for serious frame and truss operations. Many of the Hundegger TURBO-Drive machines are running multiple shifts and cutting 4-stack components, in operations where it is the second, third or fourth machine in operation.

We are now pleased to launch this new specification that allows any truss plant to enjoy all the benefits of a Hundegger CNC saw - without compromise. **The Hundegger TURBO-Drive CUT!** All the benefits you need in a **heavy duty** saw.

“...this job with birds-mouths took me just 20mins on the “CUT”, it would have been over 3 hours previously...”

The Hundegger TURBO-Drive “CUT” fast and reliable – for under \$300,000.00AUD



The TURBO-Drive CUT is supplied with an automated infeed and outfeed, **10kW 5-axis servo-controlled saw unit**, waste conveyors, printing, security fence, powerful drive motors, centralised lubrication, production monitor, short piece handling, full software and Truss UI touch-screen, including delivery, installation, training and even a spare saw-blade!

Like to increase production even further? Other packages available stand-alone or combined include:



Hundegger TURBO-Drive “STACK”

All the above features, plus increased stacking capability and material handling for even greater productivity gains



Hundegger TURBO-Drive “PRINT”

All the above features, plus extended printing capability
Text, part numbers, job ID etc



Hundegger TURBO-Drive “MILL”

All the above features, plus tool carrier, soft starter for infeed system, and powerful 7.5kW vertical milling head and dedicated double mitre tool



Hundegger TURBO-Drive “PLUS”

All the above features, plus driven outfeed chains for faster and more automated operation

Whatever your requirements, the Hundegger TURBO-Drive has a package to suit, all with localised Technical Support. All machines can be upgraded at a later date to ensure your investment returns full value. For detailed specifications, contact Sam Rowe on +61 418 561 023 sam.rowe@hundegger.com.au

Tigercat 6050 carbonator reduces wood debris in a carbon sequestration process

High-value conversion a sensible, commercial alternative to burning or landfill

RENOWNED in the logging industry for its extreme-duty purpose-built forestry equipment Tigercat has entered the material processing market with the release of its 6050 Carbonator.

It offers a single-step sequestration on-site process, a cost-effective and environmentally friendly solution that reduces debris transportation and disposal costs.

The 6050 Carbonator reduces wood debris volume onsite through a carbon sequestration process with no material pre-processing required.

Logs, limbs, brush, stumps, waste, pallets, timber off-cuts and other clean wood-based debris can be reduced by an impressive 90-95%.

The remaining carbon-based output – often referred to as biochar – sequesters the captured carbon.

Tigercat believes that this carbonisation process represents the lowest carbon footprint of any competing material reduction method ... thanks to no resulting organic decay, along with the associated release of greenhouse gasses.

“ FULL REMOTE CONTROL FOR ALL FUNCTIONS ”



1/ Tigercat 6050 Carbonator... extremely operator friendly with full remote control for all functions including machine travel.
2/ David Hazell ... environmentally sensitive ways to manage wood residue and convert to a high value product like biochar.

The Tigercat 6050 Carbonator is equipped with replaceable thermo-ceramic panels rated to 1650°C. A quenching system cools the end product to near ambient temperatures for handling, while further improving the quality of the carbon-based output. An optional conveyor system is available for output collection.

The 6050 Carbonator is extremely operator friendly with full remote control for all functions including machine travel. A live stream video monitoring system provides full visibility for easy feeding. Also, it can be used for a variety of different applications including forestry and land clearing, construction and demolition, agriculture, and primary and secondary mill residue.

Onetrak managing



director David Hazell says environmentally sensitive ways to manage wood residue and convert to a high value product like biochar are a sensible and commercial alternative to burning these products to the atmosphere or landfill.

“We have been very pleased with the level of interest right across Australia in the Carbonator 6050 since the concept was released,” Mr Hazell said.

“We have had considerable interest from entities related to organic composting and forest residue in particular, and we are excited to have secured an order for the first unit that will arrive in Australia in November.”

Glen Marley, district manager, Australia and New Zealand, says Tigercat is a truly customer focused supplier with a team of four factory support staff based in Australia

“Tigercat product development is customer driven and field research is essential to the development process,” Mr Marley said.

Designers, technicians and management personnel frequently visit customer

operations and customers frequently spend time at the Tigercat factories in Canada. This opens up direct communication lines between Tigercat, its dealers and customers around the globe. Ideas from customers

are regularly adopted by the engineer and design teams.

The process ensures that Tigercat’s product development is rapid, responsive and aligned with the current and future needs of the market and owners and operators of the machinery.

“Tigercat owners in Australia are supported extremely well by having both dealer support and factory direct support,” says Glen Marley.

Onetrak is the official distributor for Tigercat in Australia. Visit www.onetrak.com.au or call 1300 727 520 to find out more about the Carbonator and the range of Tigercat machinery.

Tree of Knowledge and know-how about preserving iconic 200-year-old ghost gum

THE Tree of Knowledge was a 200-year-old ghost gum (*Corymbia aparrerinja*) that stood in front of the Barcaldine railway station in central Queensland.

The Australian shearers' strike of 1891 used the tree as a rallying point and the manifesto of the Queensland Labour Party was read beneath the tree in 1892. The manifesto is considered to be the start of the Australian Labor Party.

The tree was poisoned in 2006 and officially declared dead the same year. The Queensland government offered a \$10,000 reward for information to help identify the culprit.

The tree's remains were removed in July 2007 and the 7 m trunk and branches were sent to the Forest Products Research Facility at Salisbury in Brisbane for long-term preservation. As the 2 m diameter trunk, root ball and branch stubs would not fit into a conventional

**HERITAGE
AWARD WINNER**



1/ Barcaldine Tree of Knowledge memorial... winner Lacklan Macquarie Award for Heritage.

2/ Preserving an icon... Barcaldine's blue gum Tree of Knowledge is removed for transport to Brisbane for treatment.



timber treatment plant, the decision was made to diffuse boron into the wood to help protect it from termite attack. The preserved tree was to be displayed under cover.

At Salisbury, the tree was installed over a large tank and an irrigation system was set up to regularly flood the tree with treatment solution. Treatment took 10 months and was stopped when penetration tests showed that the boron wood preservative had penetrated the timber. The preserved trunk and branch pieces were shipped to Barcaldine in February 2009 where they were installed in a purpose-built building where it sits to this day.

JACK'S RANT



With **JACK NORTON**
Secretary, TPAA

In August, I did what the Premier told us to do and spent some tourist dollars in Queensland. My travels included a visit to Barcaldine and, of course, I had to do an inspection of the tree. I'm

happy to report that the tree still going strong.

While wood protection may not be uppermost in everyone's mind, we know it works and is an effective way of protecting cultural heritage.

In 2010, the Barcaldine Tree of Knowledge Memorial by Brian Hooper Architect and m3architecture was the proud recipient of the Lachlan Macquarie Award for Heritage.

This significant acknowledgment represents one of Australia's most prestigious architecture honors with 2010 representing the award's 30th anniversary.

The Tree of Knowledge stands tall, representing a proud heritage and an acknowledgment of the birthplace of the Australia Labor Party.

Aside from its historical and political relevance, the monument is a magnificent work of art. Recycled timber, provided and hand picked by Kennedy's Timber staff at Narangba, includes more than 5000 individual pieces of premium Australian hardwood, resulting in a dramatic and stunning monument.



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Hyundai Ioniq re-wired for economy

THE quip that aluminium as “congealed electricity” is never far away.

It is true a lot of energy is required to make aluminium. CSIRO calculates that the embodied energy (all the energy used to make the material) for aluminium is 211 GJ per tonne, compared to 22.7 GJ per tonne for steel.

But aluminium is over three times lighter than steel, which means that energy savings can be made over the lifetime of the metal’s use if aluminium replaces steel in transport.

Car makers like Korea’s Hyundai and Kia frequently use aluminium alloys for body panels instead of steel to reduce the weight of the vehicle, which helps increase fuel economy and gives the driver better control and braking.

The new Hyundai all-electric Ioniq uses aluminium in the hood and tailgate, reducing weight by 12 kg compared with conventional steel with no measurable disadvantages in noise or vibration. With a higher usage of lightweight components and a more compact build, the cargo screen cover is about 25% lighter than the types used in other Hyundai models.

A compact five-door liftback,



Hyundai’s all-electric Ioniq premium hatch in polar white... leading the ‘charge’ in green segment of the market.



Inside Ioniq ... a host of standard features.

the Ioniq is the first car to be offered in hybrid, plug-in hybrid and all-electric variants, mounting a big challenge in the growing green segment of the market.

We spent a week in the re-wired top-spec AE.3 hatch, enjoying the experience of all-electric mobility. It hummed on the highway to the Gold Coast with drive to the front wheels via a single-speed reduction gear auto transmission. The 100kW/295Nm permanent-magnet AC synchronous electric motor can cover around 370 km – an 8 km/kWh average.

The battery is a 38.3kW Lithium-ion Polymer unit with a charging capacity of 100 kW on a DC fast charger – enough to deliver an 80%

charge in 60 minutes using a 50 kW charger and 50 minutes connected to a full-fat 100 kW charger.

After some city and suburban driving, the dash glowed a scary 3% of power after the round trip. Home again, we recharged from nearly flat to near 100% overnight on a 7 kW charger.

At a recommended retail price of \$52,490 (an extra \$495 for metallic paint), the Ioniq Electric Premium has a host of standard features ... such as alloy wheels, smart cruise control, rain-sensing wipers, heated and ventilated front seats, leather-appointed steering wheel (heated) and seats (driver’s 10-way power-adjustable with memory), a tilt and slide glass sunroof, 7 in. digital colour instrument display, 10.25-in. media

touchscreen managing an eight-speaker infinity audio system (external amplifier), digital radio, Apple CarPlay and Android Auto, Bluetooth connectivity and sat nav with live traffic updates.

Then there’s climate control, LED headlights (auto), DRLs and tail-lights, dashboard ambient lighting, and reversing camera (with parking guidance).

The Ioniq comes with a 5-star ANCAP safety rating via seven airbags – driver and front passenger head and thorax bags, driver’s knee, and side curtain airbags covering both rows of seats – emergency braking (city, suburban or country), lane keep assist and lane departure warning ... standard on all variants.

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THIRD PAGE: \$215

Horizontal • 73mmH x 190mmW

PAGE 1 Front cover strip: Contract booking

Horizontal • 30mmH x 190mmW

PAGE 1 Front cover module: Contract booking

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PAGE 2 below story: Contract booking

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