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R&D Works – May 2016

Welcome to our May edition of the R&D Works newsletter.

This month our stories include an FWPA funded report into the role that renewable industry heat credits could play if included in the Renewable Energy Target (RET); the development of a new global satellite early bushfire warning system; a sampling design in Sweden to improve cost efficiency for forest management planning; a new study into the projected demand and price of water in the southern Murray-Darling Basin ; and a further FWPA funded project that assessed Carbon stocks and flows in native forests managed for multiple use in SE Australia.

I do hope you enjoy reading about these exciting research projects and their applications.



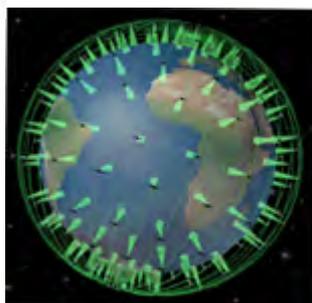
Chris Lafferty
R&D Manager, Forest & Wood Products Australia

Main News



Recognising biomass derived industrial heat in the reduction of global warming

As a result of the Paris Agreement in December 2015 to limit global warming to 2°C, Australia has committed to reducing emissions from 2005 levels by 26–28% by 2030. Australia's Renewable Energy Target (RET) is currently targeted at achieving 33 terawatt-hours (TWh) of renewable electricity by 2020 but does not cover heat generated from renewable sources. | [Read More](#)



Satellite sensors would deliver global fire coverage

Wildfires can wreak havoc on human health, property and communities, so it's imperative to detect them as early as possible. That's why NASA is working on a concept for a network of space-based sensors called FireSat.

[Read More](#)

New study predicts increases in water demand and price in the southern Murray-Darling Basin
A new study into the future state of play for irrigated industries in the southern Murray-Darling Basin has found that there is likely to be a substantial increase in water demand and price

over the next five years. | [Read More](#)



Timber Construction and Design



Hemp at the heart of WA's first eco-village
The project manager of Western Australia's first eco-village, partly built with hemp, believes the finished product will add weight to the growing push for it to be widely used in the construction industry. | [Read More](#)

Forest Growing



New approach to assessment of carbon cycle in native forest
Australian climate change policy to date has largely overlooked the potential role of forestry in mitigating climate change. When determining the climate impacts of any industry sector, it is important to adopt a true life cycle assessment approach that takes into account all relevant carbon emissions and removals. [Read More](#)



New sampling design to improve cost efficiency for forest management planning
To enable better forest management decisions it is important that the sample data used in calculations is as accurate as possible. A new Swedish study combines the local pivotal method (LPM) with the micro stand approach and compared it with the traditional systematic sampling design for estimation of forest stand variables. | [Read More](#)

New Product Innovation



New innovation to reduce energy use in paper recycling
Computers and tablets have not succeeded in creating the paperless office we expected. Businesses still like to print, a lot. So Epson, the printer manufacturer, has stepped up its game to help minimise waste, announcing the creation of an in-house paper recycling solution for businesses. Meet the PaperLab. | [Read More](#)



Taking bioadhesive technology to the industry
New Zealand-based Scion have developed a new bioadhesive which they are now making commercially available. After seven years of learning to mix and match assorted ingredients from forestry and agricultural waste to produce a recipe for a healthy 'green' bio-based adhesive, the research team is ready to take their technology to the next step, industrial commercialisation. | [Read More](#)

Wood Processing and Manufacturing



Log trials with 3D laser scanners
For decades True Shape 3D laser scanners have been used for scaling logs in sawmills around Europe, and this application has finally found a home on North American soil. | [Read More](#)

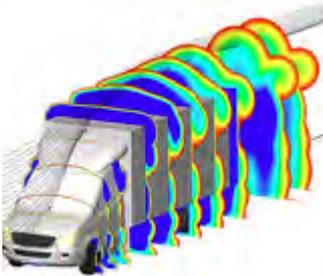
Wood Harvesting Transport and Logistics



Forest energy for a sustainable future
A new report by the Forestry Research Institute of Sweden (Skogforsk) has been released summarising their research on efficient forest fuel supply chains. | [Read More](#)



Optimised harvesting for Mallee plantations in Western Australia
A new study of Mallee plantations in Western Australia has highlighted key factors in optimising harvest for supply of biomass. These types of plantations could be a considerable source of biomass to produce renewable energy. | [Read More](#)



Round corners lower fuel consumption
Emissions from the transport sector can be drastically reduced with more streamlined trucks. Linköping University researchers have used advanced computer calculations at the National Supercomputer Centre (NSC) to produce a profile for a light truck body in which air resistance is substantially reduced - without decreasing its carrying capacity. | [Read More](#)

Other Information



Wood-based glass developed in Sweden
Swedish researchers have developed a transparent wood-based material that could be used in future to make biodegradable windows and photovoltaic panels. | [Read More](#)

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