

INNOVATION, SUSTAINABILITY + DIGITAL IN PRACTICE

ISDIP

ISDIP 048 Repurposing Wood Waste	
Date	27/07/2023
Business Unit	South Pacific
Project & Region	The Joinery Workshop, Papua New Guinea
ISC Themes	<ul style="list-style-type: none">• Using Resources• Emissions, Pollution and Waste• People and Place• Innovation

1 What Happened?

The Joinery Workshop is a Fletcher Morobe Construction (FMC)-owned business in Papua New Guinea that does the fit out for completed FMC structural buildings. Their work includes making kitchen and bathroom cabinets, office desks, and custom-made furniture. They also do a range of work for various external clients. Because Papua New Guinea does not have large scale recycling infrastructure, waste produced on sites and projects would normally be sent to landfill.

The Joinery Workshop has found ways to reuse the wood waste they produce. In 2012 the manager of the workshop received a sustainability award from Fletcher Building for their innovation around reusing wood waste, saving cost and decreasing their environmental impact. Over 11 years later, the team at the Joinery Workshop is still doing amazing, sustainable work.

2 What Are We Doing Differently?

The Joinery Workshop currently produces lots of wood offcuts, which are further processed to create two new products.

Some offcuts are fed through a wood shredder and shredded into smaller particles, which is then extracted into a briquette plant.

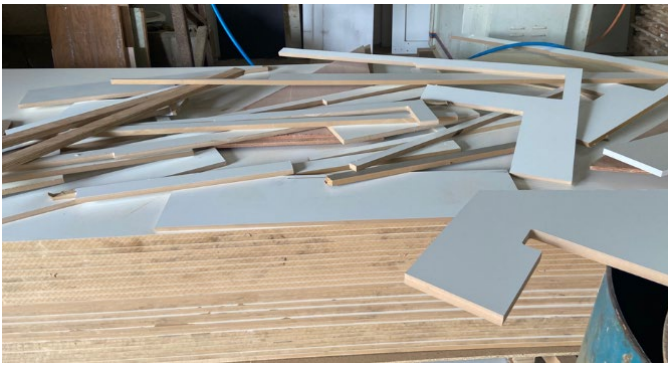


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These briquettes are then donated to the local communities to be used in their fires for cooking and warming water. In some cases, communities also use the briquettes in their garden for growing flowers and peanuts, which they sell to the public.

The Joinery Workshop also reuses their MDF and plywood off-cuts. Offcuts are cut down to size and processed, and then stored in the workshop.. These offcuts are cut into smaller sizes to be used as door infill for new Solid Core doors.



3 More Information