



Brightwater

# PROJECT REPORT

## Biomass Fuel Management Systems



Pan Pac Forest Products Ltd Biomass Fuel Management

TURNKEY SOLUTION PROVIDERS TO INDUSTRY

CONCEPT



DESIGN



MANUFACTURE



INSTALL



COMMISSION



OPERATE



# The Solution Providers

Brightwater offer a professional turnkey service. This extends from the initial concept and design engineering, production of full working drawings, workshop manufacture and site installation to final start-up commissioning with full project management and total quality control throughout. Our ongoing focus is to provide solutions to client's problems particularly in the materials handling and Biofuel management arenas. The critical stage of this process is to get alongside our clients and clearly identify either the problem they have, or the potential added value to their operation by more effective materials handling, or the cost reductions and environmental advantages of utilising new technologies. This process requires a commitment to innovation and the use of worldwide best practise technology and equipment.

Brightwater combines its own in-house expertise of more than 25 years experience in materials handling, with a wide range of international products and services, to provide solutions to materials handling and Biofuel management systems. Brightwater has installed over 50 Biomass Fuel management systems throughout Australasia, many in conjunction with Biofuel fired energy plants. These systems typically handle and store fuels and materials as diverse as: wood waste, bark, wood chips, sander dust, shavings and peelings, hogged production wood wastes and coal.

## Sliding Frame Silo Applications



JNL 800m<sup>3</sup> Pull Floor Bunker



JNL Kaitaia Fuel delivery and blending



JNL Kaitaia 360m<sup>3</sup> Silo



Claymark Industries' 200m<sup>3</sup> portal mounted silo



KLC 400m<sup>3</sup> Silo with truck loading screw



JNL Kaitaia 800m<sup>3</sup> Pull Floor Bunker

# Wood By-Products



McAlpines 250m<sup>3</sup> Silo



Hyne and Son, QLD, Australia, 36m<sup>3</sup> Push Floor



BML 275m<sup>3</sup> and 550m<sup>3</sup> Silos and 20m<sup>3</sup> Pull Floor Bunker

Nelson Pine Industries Limited, Nelson



*NPIL Chip Reception Bunker - 150m<sup>3</sup> Double Push Floor*



*NPIL 800m<sup>3</sup> Silo*



*NPIL 1500m<sup>3</sup> Push Floor and En Masse Conveyor*



*NPIL Imported Fuel Reception 250m<sup>3</sup> Push Floor Bunker*



*NPIL 2000m<sup>3</sup> Push Floor*

## Heat Pac Fuel Management Systems



WPI Tangiwahi



Waitete Sawmills Heat Pac



WPI Tangiwahi 65m<sup>3</sup> Pull Floor



WPI Tangiwahi 250m<sup>3</sup> Quadrant Reclaim Screw



Renall Sawmilling Heat Pac

## Total Fuel Management



Carter Holt Harvey LVL plant, Marsden Point



CHH LVL 200m<sup>3</sup> Silo



CHH LVL 1000m<sup>3</sup> Push Floor Bunker

Full Turnkey Projects

Hog Feed System



Pan Pac Forest Products. Shaving reception (front), 800m<sup>3</sup> shavings silo, 600m<sup>3</sup> pull floor bunker (rear)



BEL Hog Feed System



600m<sup>3</sup> Pull Floor Reception Bunker



800m<sup>3</sup> Circular Screw Reclaimer Silo



Discharge conveyor unscrambled product



Loader Reception Bunker

# Coal Handling



*KLC Coal Reception Storage and Feed System*



*CHH Tasman Coal Hopper*



*Alpine Dairy Coal Reception and conveying System incorporating a 160m<sup>3</sup> Pull Floor Reception Bunker*



*Clandeboye Coal Handling, Fonterra*

For a more detailed review of our work, please refer to our website: [www.brightwater.co.nz](http://www.brightwater.co.nz)



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