



Easteel Energy Systems

BLUE MOUNTAIN LUMBER

TAPANUI, NEW ZEALAND

PROJECT REVIEW 7

10MW Watertube Steam Boiler
Babcock & Wilcox Towerpak with Vibrating Grate
Wood Fired (including 1.6MW electric turbine)

Job Number: 8920
Date Installed: 2000



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BACKGROUND OF PROJECT

EFI (previously Meridian Solutions) is a utility company providing heat and power to industrial customers. Blue Mountain Lumber needed to replace ageing boilers, and opted to have EFI supply steam across the fence and invest capital in a new timber processing plant.

Additional to the boiler, a refurbished steam turbine to generate power during periods of low steam demand and available waste was installed. The Peter Brotherhood turbine was located, reconditioned and installed by RCR Easteel Energy Systems.

SPECIFICATIONS

BOILER

Model	Towerpak
Output	10000 kW
Steam temp °C	400°C
Pressure	32 barg
Fuel	Woodwaste
Fuel moisture	122% ODB

TURBINE

Model	18/22
Output	1620 kW

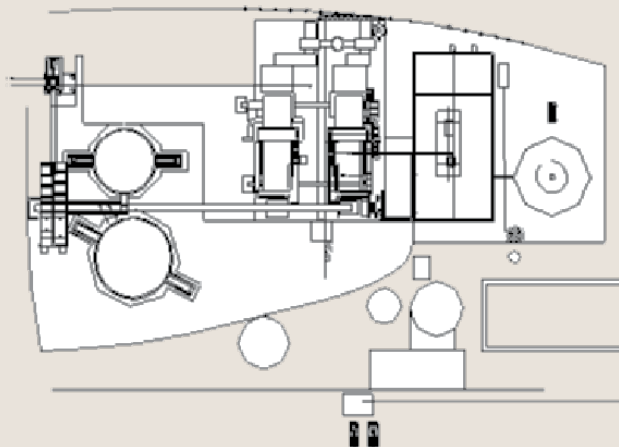
THE RCR EASTEEL SOLUTION

RCR Easteel Energy Systems designed, manufactured, commissioned and installed a biomass fired steam energy plant including;

- RCR Easteel complete project management
- Civil design and construction
- RCR Easteel designed and manufactured, B&W 10MW Towerpak steam boiler
- Brightwater wet and dry fuel handling system
- Brightwater hogging facility
- Refurbishment and relocation of Peter Brotherhood steam turbine
- Water treatment plant
- The existing B&W WIFF boilers installed in the 1950's, were replaced with a new Easteel designed B&W Towerpak boiler.

WHY CHOOSE RCR EASTEEL?

- Unattended boiler operation
- Unattended turbine operation
- Ability to burn high moisture biomass fuel
- Allen Bradley PLC based control system
- Wondaware in touch SCADA system



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