

# INDUSTRIAL SOLID FUEL COGENERATION FACILITY

**Client:**

Miramichi Paper

**Location:**

New Brunswick,  
Canada

**Capacity:**

250,000 of  
steam/hr, 25 MW

**Approximate****Installed Value:**

\$50,000,000



*PCI was selected to provide engineering and design services to a major EPC contractor for the conversion of an existing chemical recovery boiler to biomass fuel and the addition of an extraction, backpressure steam turbine generator.*

**Work included:**

- Conducting extensive onsite investigations including inspections of the existing equipment to determine upgrades and necessary repairs
- Evaluated available biomass fuels and alternative sourced fuels
- Detailed evaluation of an existing chemical recovery boiler regarding conversion of the boiler to a biomass fuel boiler
- Prepared general arrangement drawings, P&IDs and electrical single-line diagrams
- Negotiated a detailed scope of work for conversion of chemical recovery boiler to a stoker fired biomass boiler with OEM boiler supplier
- Prepared specifications and selection of other major equipment including fuel handling equipment, ash handling equipment and related facilities
- Created a detailed cost estimate for entire turnkey installation
- Developed alternative financing strategies for the project

