

# INDUSTRIAL BIOMASS FUEL COGENERATION PROJECT

**Client:**

North American  
Forest Products  
Company

**Project Location:**

British Columbia,  
Canada

**Capacity:**

20 MW

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

\$Confidential



*PCI developed an integrated biomass fueled steam and power generating facility for a large Canadian pulp mill.*

**The scope of work included:**

- Onsite inspections and evaluations of existing equipment including boilers, turbine generators, fuel handling and related systems
- Reviewed steam and energy consumption in the mill including identification of energy reduction alternatives
- Developed detailed heat and material balance plan
- Developed a proposed technical configuration for a biomass fueled steam and power generating system
- Determined provincial and federal (Canadian) stack emission and related environmental limits
- Developed an environmental implementation plan
- Selected major equipment including biomass fueled boiler, air pollution control equipment and steam turbine generator
- Designed electrical interconnect for related facilities to a 115 kV interconnection
- Provided detailed cost estimates for construction, operations and maintenance
- Created a detailed business plan including economic model and an evaluation of alternative financing structures

