

BIOMASS COGENERATION PROJECT

Client:

MCW Energy
Company, Ontario,
Canada

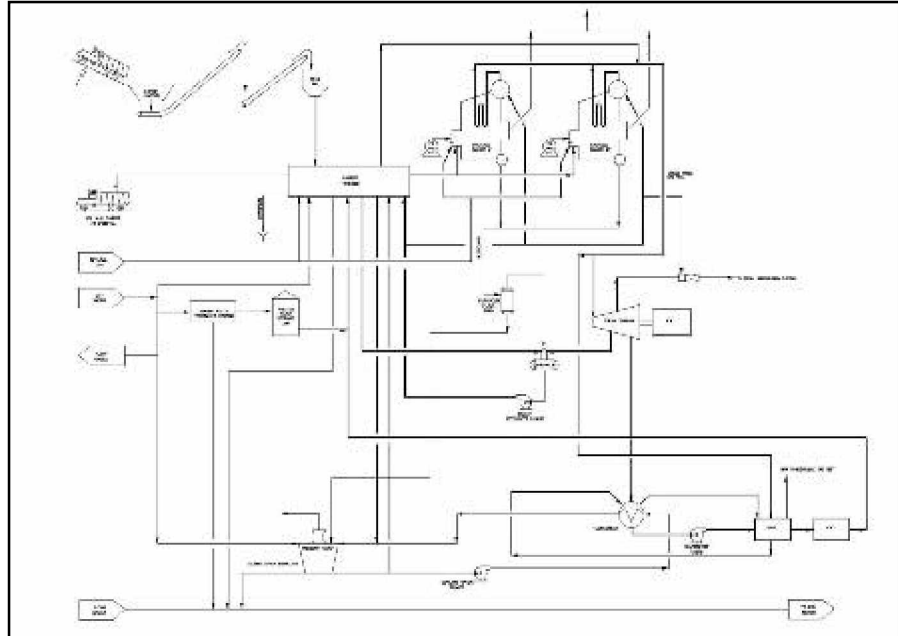
Project Location:

Ajax, Ontario,
Canada

Capacity:

30 MW

**Approximate
Installed Value:**
\$Confidential



MWC Energy Company, an independent Canadian power development company, contracted with PCI to provide conceptual engineering, design, equipment selection, cost estimate preparation, permitting assistance and other work associated with a biomass gasification cogeneration project.

The scope of work included:

- Managed the site selection including evaluation of space requirements
- Evaluated the biomass gasification process
- Developed detailed heat and material balances for gasification and cogeneration systems
- Prepared specifications for and selection of major equipment
- Prepared P&IDs for all systems
- Prepared electrical single-line diagrams for plant power systems
- Prepared general arrangement drawings for entire gasification/ cogeneration facility
- Prepared electrical diagrams including relay and protection systems for 44 kV substation
- Developed detailed cost estimates including material takeoffs
- Created an operation and maintenance plan
- Prepared input for all regulatory approvals

