

INDUSTRIAL COAL FIRED COGENERATION FACILITY

Client:

Confidential - Pulp and Paper Mill

Project Location:

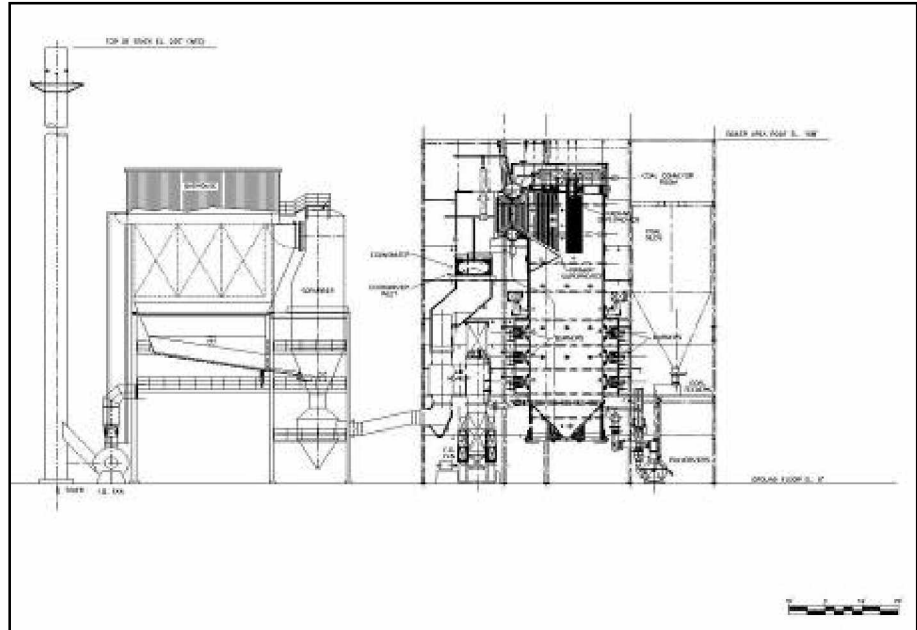
South Central U.S.

Capacity:

300,000 lbs/hr
Boiler, 22 MW_e

Approximate**Installed Value:**

\$ Confidential



PCI performed a detailed study to convert a large paper mill's steam production facility from gas to a pulverized coal based, cogeneration facility.

The scope of work included:

- Performed a detailed screening of all practical solid fuels including Powder River Basin ("PRB") coal, western coal, Mill's waste fiber, petroleum coke and other opportunity fuels
- Identified and determined all required emission level requirements
- Developed a permit and regulatory plan
- Reviewed the Mill's overall energy consumption (Btu/ton) and identified eight energy conservation measures, which would reduce energy use per ton of paper produced
- Performed an evaluation to determine the (pressure/temperature) for a new solid fuel cogeneration plant
- Prepared detailed heat balances, P&IDs and related design documents
- Performed an evaluation of various boiler technologies and environmental control technologies to address the requirements of the Project
- Prepared bid specifications and managed procurement process for all major equipment
- Developed a detailed estimate for total project capital cost
- Developed a detailed O&M plan and an operating cost schedule
- Developed detailed proforma and financial analysis that identified a significant energy cost savings associated with the project

