

PROJECT CAPABILITIES

BOILER CONVERSION TO BIOMASS BURNING



Scope of Service

Boiler owner/operators in recent years have been motivated to convert existing fossil fueled boilers to burn some, or exclusively biomass fuels. Biomass fuels often provide lower fuel costs and lower flue gas emissions as well as being considered a “green” renewable resource. Whether the boiler currently burns exclusively fossil fuels or burns a combination of fossil and biomass fuels, JANSEN has the experience and capabilities to provide the necessary services to enhance biomass firing in most all boiler configurations.

A recommended phased approach to fuel conversion projects is listed below:

- Initial assessment of feasibility and required modifications to generate early budgetary costs.
- Engineering evaluation of existing boiler to determine the unit’s capabilities when operating with the new fuel (pressure parts, auxiliary and pollution control equipment).
- Definition engineering to develop +/- 10% accuracy cost estimate.
- Engineering design, fabrication, and materials supply.
- Installation.
- Operator training and start-up assistance.

JANSEN has the capability and experience to carry out any or all of these steps.

Selected References (see next page)



Selected References

AES Corporation - Lufkin, TX
EPCOR Canada - Squamish, BC
Great River Energy - Elk River, MN
Hu Honua Bioenergy LLC - Hilo, HI
New Ulm Public Utility - New Ulm, MN
Sonoco Products Co. - Hartsville, SC
Springs Global US, Inc. - Lancaster, SC
Turbine Diagnostics Services, Inc. - Forest City, NC
Weyerhaeuser Paper Company - New Bern, NC