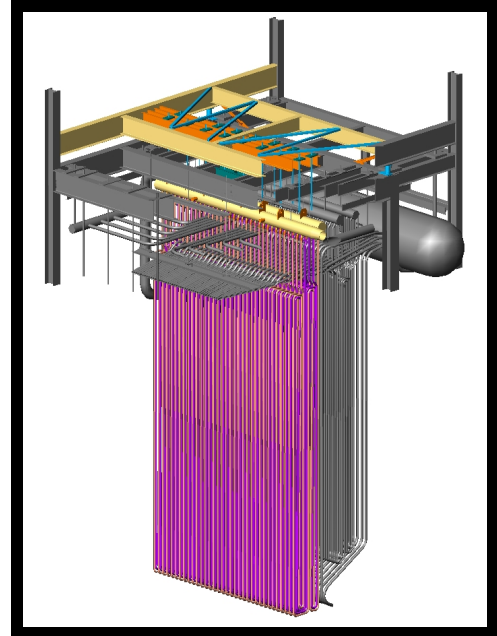
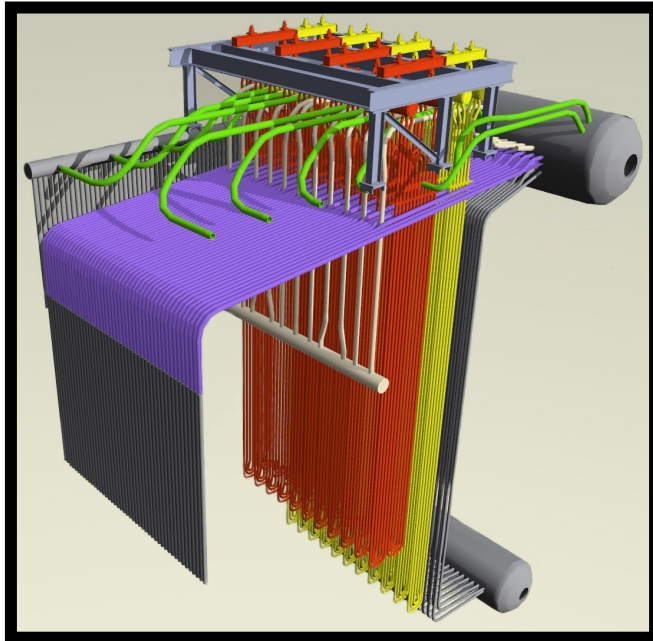


PROJECT CAPABILITIES

SUPERHEATER CAPACITY & PERFORMANCE UPGRADES

- Chemical Recovery Boilers
- Biomass Boilers
- Waste Fueled Boilers (MSW and RDF)



Scope of Services

The performance and reliability of superheaters plays a critical role in overall plant efficiency and in-house power generation. With increased fuel and power costs, more emphasis is placed on maximizing in-house power generation. In recent years, Jansen has completed projects of the following nature to improve the operating performance, capacity, and reliability of superheaters in existing waste fueled boilers:

- Corrosion analyses (see Capabilities Reference Sheet C-14).
- Metallurgical upgrades to improve corrosion resistance.
- Design and supply of additional heating surface to increase final steam temperature.
- Modify steam flow pattern to minimize pressure loss across the superheater.

Selected References (see next page)

Selected References
Superheater Capacity & Performance Upgrades

Cariboo Pulp & Paper - Quesnel, BC
DTE Energy - Stockton, CA
Great River Energy - Minneapolis, MN
International Paper Company - Ticonderoga, NY
International Paper Company - Vicksburg, MS
Kimberly-Clark - Everett, WA
Montenay Inc. - Burnaby, BC (3 units)
Nippon Dynawave - Longview, WA
Packaging Corporation of America - Valdosta, GA
Simpson Tacoma Kraft - Tacoma, WA
Sonoco Products Co. - Hartsville, SC
Western Pulp Limited - Port Alice, BC
Weyerhaeuser Company - Campti, LA