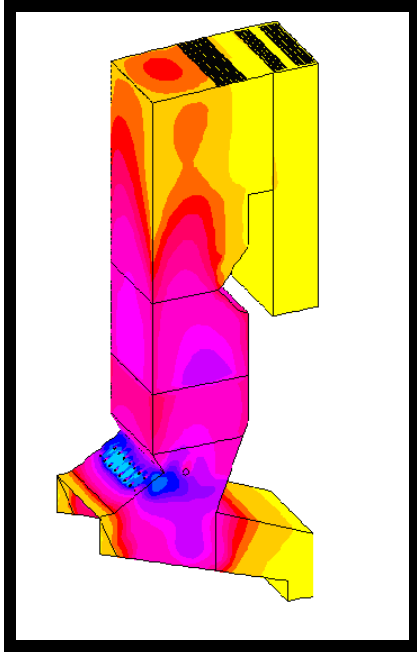


## PROJECT CAPABILITIES

### BOILERS IN ENERGY-FROM-WASTE INDUSTRY

- Municipal Solid Waste (MSW)
- Refuse Derived Fuel (RDF)
- Tire Derived Fuel (TDF)



### Scope of Services

Typical waste fuels in this industry are municipal solid waste (MSW), refuse derived fuel (RDF), and tire derived fuel (TDF). Jansen has completed the following projects for customers in the Energy-from-Waste (E-f-W) industry.

- General troubleshooting and problem root cause analyses.
- Superheater corrosion analyses.
- Feasibility studies for boiler fuel conversion (from prior fuel to MSW/RDF/TDF).
- Review of process design factors, pressure part evaluations, and circulation studies.
- Computational Fluid Dynamics (CFD) modeling of combustion performance and heat transfer characteristics.
- ASME Code “S” pressure part design (furnace, superheater, generating bank, and/or economizer).
- Pressure parts supply, fabrication, and installation.
- Efficient combustion air delivery systems, i.e., overfire air (OFA) upgrades.

**Selected References (see next page)**

## **Selected References**

### **Boilers in Energy-from-Waste Industry**

City of Ames - Ames, IA  
Consumat Recomp - Bellingham, WA  
Covanta Energy - Harrisburg, PA  
Covanta Energy - Niagara Falls, NY  
Connecticut Resource Recovery Authority (CRRA) - Hartford, CT (3 units upgraded)  
EnergyAnswers Corporation - Albany, NY  
EnergyAnswers Corporation - Agawan, MA  
Exeter Energy - Sterling, CT  
Great River Energy - Elk River, MN  
Green Island Energy Limited - Vancouver, BC  
Hitachi Zosen Inova - Norcross, GA  
Maine Energy Recovery Company - Biddeford, ME  
Montenay Power - Miami Dade County, FL  
Montenay Power - Burnaby, BC  
Montenay Power - York, PA  
ReEnergy Holdings - Albany, NY  
ReEnergy Holdings - Black River, NY  
ReEnergy Holdings - Kenansville, NC  
The Barlow Group - Harrisburg, PA  
Veolia Dade County - Miami, FL  
Veolia Pinellas - St. Petersburg, FL  
Veolia Waste-to-Energy - Burnaby, BC  
Von Roll America, Inc. - East Liverpool, OH  
Wheelabrator Technologies - Auburndale, FL  
Wheelabrator Technologies - Baltimore, MD  
Wheelabrator Technologies - Hampton, NH  
Wheelabrator Technologies - Hudson Falls, NY  
Wheelabrator Technologies - North Broward, FL  
Wheelabrator Technologies - Portsmouth, VA (4 units upgraded)  
Wheelabrator Technologies - Spokane, WA  
Xcel Energy - Red Wing, MN