Biomass Fired Energy Systems
Parts - Service - Retrofits

Time to replace your existing equipment? Need improved process efficiency?
Consider retrofitting your existing system with modifications or equipment upgrades to increase your process efficiency and to take advantage of improved energy savings.

Retrofit Emission Upgrades
- System Modifications
  - Biomass Hydraulic System
  - Air-cooled Fuel Feeders
  - Air-cooled Thermal Fluid Heat Dumps

- Boiler MACT Compliance

- Detailed Energy System Audit

Replacement Equipment / Parts
- Multi-Clones
- Fans
- Dampers
- Expansion Joints
- Thermal Fluid Heat Dumps
- Thermal Fluid Pumps
- Controls and Control Devices

Electric Automation Control
- Electrical/Functional Safety Engin.
- Combustion Control Systems
- Basic Process Control Systems (BPCS)
- Safety Instrumented Systems
- Field Support-Programming and Training

Biomass Fired Energy Systems
Parts - Service - Retrofits

Engineered Wood Plants
(OSB, MDF, PB and LVL)
Sigma Thermal designs, engineers, supplies, and services all types of industrial process heating systems and associated automation. Because every project is unique, our application engineers will gain an understanding of your process demands to help you select the right equipment for your application. Understanding our customers’ process is the key to supplying a system that consistently exceeds expectations.

**Thermal Fluid Heating Systems**
Standard thermal fluid heaters from 500,000 to 75MM Btu/hr, custom engineered thermal fluid heaters, complete thermal fluid systems for Hot Oil, Glycol, Water, and other heat transfer mediums.

**Direct Fired Heaters**
Convection style, API and non-API radiant-convective heaters from 1MM to 80MM Btu/hr. Radiant-convective and convection only style heaters are available to meet a wide variety of demanding applications.

**Process Bath Heaters**
Water bath, salt bath, and weir bath indirect fired heating systems from 1MM to 30MM Btu/hr. Forced draft/natural draft burners and custom coil configurations are available to meet your specific process requirements.

**Biomass Fired Energy Systems**
Reciprocating grate combustion systems for heavy moisture content fuels, as well as dry fuel combustors for drier fuel sources. Furnaces, hot oil heaters, boilers, fuel handling, and ash handling.

**Waste Heat Recovery**
Don’t send precious heat energy up the exhaust stack! We build closed loop liquid phase waste heat recovery systems for oil, water, or glycol as well as combustion air pre-heat systems for existing fired heaters.

**Electric Process Heaters**
Standard and custom engineered electric immersion and circulation heaters with controls. Whether shipped loose or packaged as a skid, Sigma Thermal can provide the complete solution.

**Automation**

**Parts, Service, & Retrofits**
Specializing in system optimization to ensure that your plant operates at its maximum potential. We provide field service, parts, systems analysis, and upgrades/retrofits to existing systems.