



# HGA Engineering, Program Management & Staffing Solutions for Biomass

## BIOMASS & RENEWABLE ENERGY

### WEALTH OF BIOMASS EXPERIENCE

The staff at HGA has been working in the biomass industry for a number of years. Our extensive experience in wood products and materials handling combined with our expertise in power, process, and energy are a natural fit for this industry.

Through in-house expertise, partners, and outside resources, HGA can advise on a variety of biomass technologies and applications. Offering services from: biomass power plants, pellet mills, biomass co-firing &

conversion projects, and biofuels, our team is proficient in a wide range of services.

Our team represents a broad talent pool as several of our staff have served as engineers, project managers, maintenance managers, plant managers and owners of facilities that utilized biomass fuels in their operations. HGA personnel have been involved with biomass projects from every aspect – many with over 30 years experience in the industry.

### EXCELLENCE & EXPERIENCE

- 2,900+ Projects Completed
- State of the Art Technology
- Projects in 30 states, Canada, & Mexico
- Portfolio of fortune 500 clientele, state and local government municipalities, and many prestigious public & private companies
- Distinctive service offerings throughout 9 industries
- Multiple Industry Awards:
  - Zweig Group Hot Firm List
  - ENR Top Design Firm
  - Inc. 5000 Fastest Growing Private Company

### PELLET PORT FACILITIES

- Army Corp of Engineering Permitting Support
- Port Design & Management
- Risk Mitigation Studies
- Material Handling
- Material Storage
- Ship Loader Support

### KEY BENEFITS

- Deliver Project Consistency with on-site management
- Streamline Workflows
- Successfully oversee and integrate job goals and facility needs
- Decision Support & Comprehensive Reporting
- Improved control & communication
- Lead in quality, safety, schedule & costs
- Industrial & Technical personnel placement, on- and off-site
- Precise & detailed design using 3D technology

## PELLET MILLS:

From front-end design to back-end execution, we work with you every step of the way. Our wide range of development, engineering, and construction services create the use of industrial or residential pellets easier. Use our knowledge in the development, engineering, and construction services of pellet mill facilities.

HGA will HGA has extensive knowledge and experience in a variety of pellet mill services including:

- Pellet Mill Design
- Cooler Upgrades
- Log Yard Expansion
- Material Handling & Storage
- Plant Layout
- WEPD RTO addition
- Energy Balancing
- Maintenance Systems
- Boiler Renovation
- Coal to Biomass studies
- Fire Prevention - Suppression Systems

## RELAVENT PROJECTS:

### Gray Construction

Wood Pellet Handling and Storage Facility included: road truck unloading, rail car unloading, storage facility, reclaim conveying, and ship loading. Phase 1: Review of documents prepared by the Owner's Engineer (Drax Biomass's conceptual design), value engineering, preliminary engineering, and cost estimating. Phase 2: Consists of detailed design.

### International Paper

Boiler study to install an economizer, a Venturi scrubbing system, continuous stack monitoring and replacement of an ID fan at Ticonderoga facility. The project was designed to reduce and particulate SO2 emissions to 80% of NSPS requirements in New York State while burning bark, oil, and non condensable gases. Recovery boiler rebuild project at the mill in Pine Bluff, AR.

### Georgia-Pacific Corporation

Detailed design for increasing the steam pressure on the fourth dryer section of No. 3 Paper Machine and steam de-superheaters for both No. 3 and No. 4 Paper Machines at Port Hudson facility. Design, layout, and arrangement drawings and drafting for hogged fuel reclaim and conveying system.

Detailed design for upgrade of the powerhouse condensate collection system at Port Hudson facility, including new flash tank and related piping and controls.

### Weyerhaeuser (Willamette Industries) Simsboro, LA (Particleboard)

Plant Upgrade Preliminary Engineering  
Block Wall Analysis and Design  
Load Rating for Elevator  
Sander Dust Re-Injection Project  
New Switchgear for Milling & Drying Area  
Pneumatic System Design

### Trus Joist (Weyerhaeuser Business)

Phase 1-Greenfield I-Joist Plant Engineering  
Phase 2-Microlam Product Line Design  
Oven Study

### Norbord Jefferson, TX (OSB)

New Heat Energy System  
Dryer Cyclone Replacement  
RTO Installation  
Precipitator Installation  
Dryer Outlet Ducting Design



Hunt, Guillot & Associates (**HGA**) is a multi-disciplined project management & engineering services company providing professional services to an extensive portfolio of customers throughout numerous industries.

We seek to build long-term customer relationships by listening to our clients, leveraging our experience and delivering on our commitments.

For more details on our project & consulting services, visit our website or contact us at:

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### Office Locations

Ruston, LA	New Orleans, LA	Birmingham, AL
Baton Rouge, LA	Shreveport, LA	
Lake Charles, LA	Houston, TX	