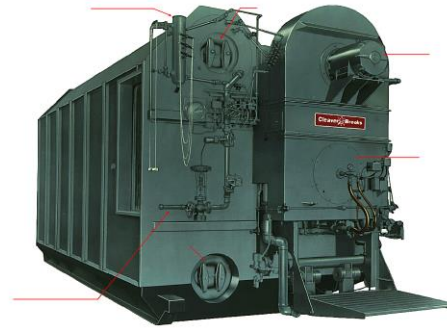




JoGar Energy Services

**Reduce Plant Operating Costs**  
**Add Savings to the Bottom Line**

**Plant Energy Usage  
and Utility Systems  
Optimization**



***We can reduce your Energy Costs by 10 % or more.  
Concerned about Global Warming and CO<sub>2</sub> emissions ?  
Let our years of industrial experience go to work for you.***



## *What We Do*

- Review Energy Supply Contracts**
- Review your energy costs & usage in detail**
- Conduct “on-site” reviews of utility systems**
- Evaluate energy use on Key Processes**
- Assess utility impact on process operations**
- Conduct technical training sessions**
- Provide a comprehensive report**
- Provide additional Consulting ‘as needed’**



# **How You Benefit**

## **Use Third Party expertise to:**

- **Improve reliability of your Plant Utility Systems**
- **Train your personnel to be more effective**
- **Improve reliability of your core processes**
- **Reduce your Site Energy Costs by 10 % minimum**
- **Gain Notable Environmental Achievement**

**Put our expertise to work at your plant**



## *How We Do It*

- Benchmark your energy use against established standards**
- Perform a thorough 'on-site' critique of all utility systems**
- Meet with key personnel to learn operational issues**
- Identify Energy Intensive processes and cycles**
- Determine if employee training is needed**
- Review Energy Supply Contracts**
- Develop potential project opportunities**
- Submit recommendations for your review**





# *What We Analyze*

- Energy supply costs, bills and metering
- Energy usages, trends, profiles, etc.
- Boilers and steam systems
- Compressed Air Systems plantwide
- Electrical systems, distribution losses, lighting and major motor loads
- HVAC equipment and distribution systems
- Water supply, usage and effluent systems
- Utilities impact upon major processes
- Process heating & cooling systems
- Employee conservation practices



## **What We Often Identify**

- Boiler combustion issues – excess fuel use**
- Boiler maintenance issues – excess costs**
- Water supply & disposal costs excessive**
- Steam quality affecting manufacturing**
- Water in the air lines affecting manufacturing**
- Lighting system opportunities**
- Pumps, fans and motors – low efficiency**
- Process availability affected by utilities**
- Excessive heating and cooling loads**
- Electrical power quality issues**
- Employees with ideas, but fully occupied**
- The need for an Energy Management Program**



# **Training Services**

- Boiler Operations & Maintenance**
- Boiler Water Treatment Systems**
- Steam Quality & Purity Issues**
- Steam Systems, Traps & Condensate**
- Deaerator and Feedwater Systems**
- Chemical Treatment Systems & Guidelines**
- Centrifugal Pumps and Water Systems**
- Process Systems Heat Transfer**
- Compressed Air Systems & Distribution**
- Fuel Systems for Boilers & Process Burners**
- Energy Conservation Programs**



# *Our Fee Structures*

- ❑ **Fixed 'Per Diem' Basis:**
  - ❑ Preliminary Reviews – Identify Projects
  - ❑ “On-site” efficiency testing services
  - ❑ Training Seminars
  
- ❑ **Percentage of Identified Savings:**
  - ❑ Project Development activities
  - ❑ More extensive Process Utility Systems Evaluations & justification data





# Who We Are

- JoGar Energy Services was started in 2006 as a small Consulting Engineering Firm.
- Our specialty is Industrial Plant Energy & Utility Systems Optimization.
- Mr. Wamsley is an Engineer with 40 years of management and operational experience in the tire, aerospace and paper industries.
  - A Registered Professional Engineer in five states
  - A Certified Energy Manager with AEE
  - A Certified Plant Engineering Manager
- Recently served as a technical consultant for a Fortune 100 company coordinating the energy program, conducting energy reviews, process systems evaluations and implementing energy projects.
- Has developed and presented several training modules for utility systems. He currently conducts Training Seminars on these topics.
- His industrial utility system experience is extensive ranging from small converting plants to huge pulp mills with cogeneration plants - worldwide.



## *Questions & Discussion*

- Communication procedures**
- Information prior to a visit**
- Time schedules & dates**
- Training options**
- Role of your personnel**
- Insurance Coverage**
- References**
- Some recent examples**



## ***The Next Step is Yours***

- **We look forward to discussions with you:**
- **To learn more about our company and services online, please visit us at:**

**[www.JoGarEnergy.com](http://www.JoGarEnergy.com)**

- **To contact Mr. Wamsley directly:**

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