



**KNOWLEDGE INTEGRATION SERVICES (INDIA) PVT. LTD.**

Innovative Cost Saving Technologies

We Create  
Ways to Save  
Cost &  
Environment



## INNOVATIVE COST SAVING TECHNOLOGIES

KIS has been pioneer in creating innovative and intelligent technologies/solutions for all types of Manufacturing Industries to reduce the cost of operation/manufacturing. We offer effective and efficient solutions to enable all our clients to achieve higher competitiveness by way of reducing cost, increasing productivity, converting their waste into energy, integrated automation and process and energy optimization.

**Power Plants: Turnkey solution for Co-generation (Power/steam) and tri-generation (Power/Steam/cooling) projects.**



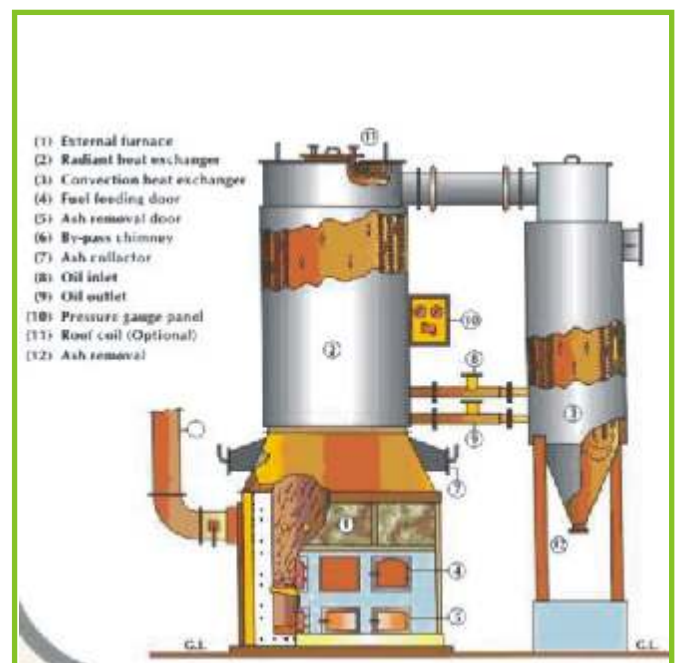
## WE CREATE WAYS TO SAVE COST AND INCREASE EFFICIENCIES

Innovative solutions that create ways for our clients in reducing costs and increase competitive advantage

KIS identifies opportunities in below mentioned areas and offers innovative solutions to capitalize upon these opportunities to enable organizations to reduce cost and build the competitive advantages.

## PRODUCTIVITY IMPROVEMENTS

Our experts identify opportunities to increase productivity for any processing industry. We offer innovative manufacturing solutions to increase productivity to reduce unit cost of production. This helps our clients to leap ahead of competition with lesser unit cost of production.



## WE SPECIALIZE IN SELECTING SUITABLE RENEWABLE ENERGY (BIOMASS) HEATING SOLUTION FOR DIFFERENT TYPES OF PROCESS AND INDUSTRIES.

- **Steam Requirement Solutions (Boilers.)**
- **Thermal Oil Heaters and all heating solutions**
- **Direct & Indirect Hot Air System**
- **Hot Water Applications**
- **Co-gen and Tri-Gen Power Plants**



We offer variety of heating applications using Renewable energy be it Steam generation (Boilers), Thermal Oil Heaters, Hot air system, Hot water applications and power plants.

Our design offer higher efficiency thermal energy generation using any type of biomass fuels like Palm Kernel Shell, Palm Fiber, Empty fruit bunches, Rice husk and any agro waste from edible oil refining industries including municipal wastes.

### IMPROVING PLANT/UTILITY EFFICIENCY:

Most process plants generate required heat energy indirectly in two stages which causes lower efficiency. For ex. If hot air is required - Steam is produced first then from this Steam Hot air is produced. Such system has low efficiency.

OUR DESIGN OFFERS GENERATING CLEAN HOT AIR DIRECTLY, THERE BY AVOIDING STEAM (BOILERS) IN MANY SIMILAR APPLICATIONS. We assist in selecting suitable heating solution be it Steam, Thermal oil, Hot water or Hot air for higher efficiency.

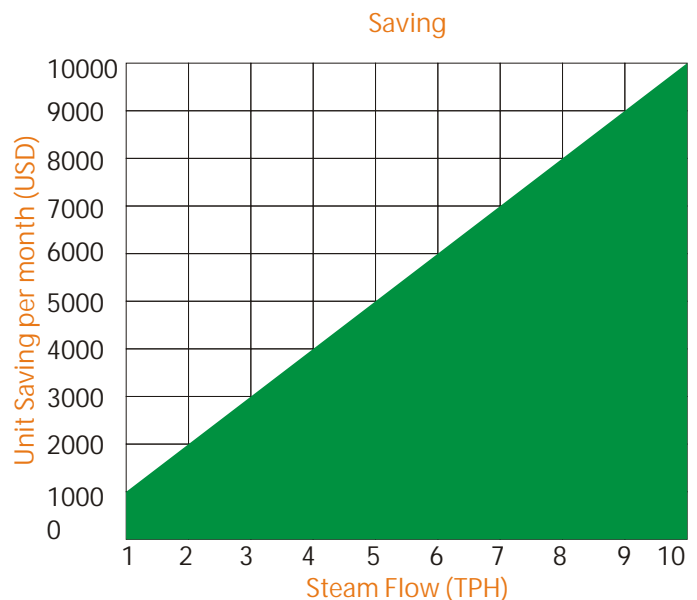
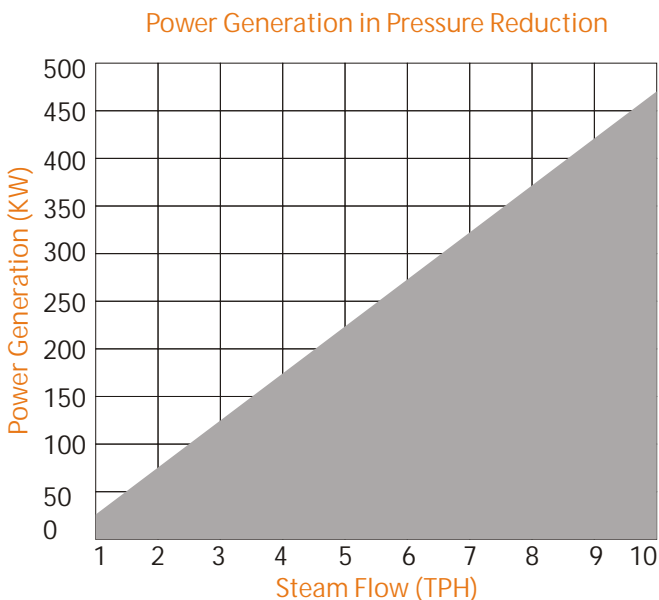
### STEAM PRESSURE REDUCTION VALVES

**Most industries use Pressure Reducing valves (PRV) to reduce steam pressure to different pressure.**

**EACH AND EVERY PRV IS WASTE OF ENERGY.**

**EACH AND EVERY "PRV" IS A POTENTIAL COST SAVING OPPORTUNITY!**

We offer complete solution to avoid this waste of energy in PRV and generate savings.!



## ENERGY CONSUMPTION REDUCTIONS

Reducing manufacturing cost is the main driving force in any industry to counter ever escalating energy prices. At KIS we specialize in offering innovative engineering solutions for reductions in energy consumption for our industrial clients. We recommend the necessary practical steps to implement the solutions for achieving savings on behalf of our clients. We also, monitor and report the actual financial savings achieved on a continuous basis.



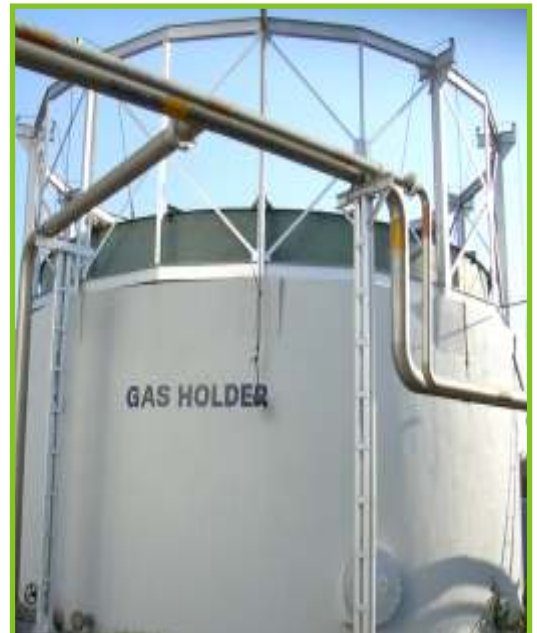
## SOLID WASTE RECYCLING/ WASTE TO ENERGY PROJECTS

Do not assume and ignore that all kinds of waste generated in your process, be it solid, liquid, and off gas waste has no value. We have successfully developed and demonstrated solutions to convert waste to energy and/or products in many different manufacturing units. We do complete analysis of all kinds of waste and determine suitable solution to get the best value. Our solutions have helped generate profit from waste to our customers.

**WOW ! (Wealth Out of Waste) project using Palm oil refinery waste is successfully commissioned. This is first of its kind project in the world.**

## WASTE (EFFLUENT) WATER TO ENERGY

With the cost of fossil fuels like MFO/ diesel skyrocketing and stringent waste water disposal parameters set by "Department of Environment," nothing is better than converting/ extracting Biogas from your effluent water. We offer best efficiency converting/extracting biogas from waste effluent water. We also offer complete system for using biogas in boilers/thermal oil heater to co-fire with MFO/Diesel.



## INTEGRATED AUTOMATION/DETAILED ENGINEERING

Distributed and or decentralized automation of processes makes the operation of plant and process less efficient. Integrated and seamless automation makes the process most efficient and reliable. We specialize in providing Integrated Automation solutions.

### TURNKEY PROJECT CAPABILITY

We have the expert capabilities to undertake complete turnkey projects in any of the above services. We undertake major projects for all site-services and ancillary plant. Working to pre-defined terms and conditions at competitive costs, from feasibility study, design specification, project management and commissioning through to satisfactory completion



### ENGINEERING PROCESS AND KNOWLEDGE PROCESS OUTSOURCING

With our head office located at Bangalore in India. We offer most cost effective solutions for all your needs for engineering and knowledge process outsourcing.

### PROJECT MANAGEMENT

KIS specializes in providing project management services and consultation for any or all phases of a project. Our project managers have extensive expertise to direct, support and coordinate all aspects of your engineering project, whether large or small. Project managers are proficient in maintaining the schedule and budget constraints.

#### POWER PLANTS

**WE SPECIALIZE IN EXECUTING SUITABLE, CO-GENERATION, TRI-GENERATION PROJECTS, TO GENERATE ELECTRICITY, STEAM AND REFRIGERATION FOR SELF USE IN INDUSTRIES.**



CDM Stake Holders Meeting

### CDM (CLEAN DEVELOPMENT MECHANISM) PROJECTS/CARBON CREDITS

With CDM developing countries have great opportunities and added advantage is carrying our renewable energy projects like biomass/biogas as energy source. KIS specializes in conceiving innovative CDM projects to make the projects viable with revenue for clients from carbon credits. Our projects are successfully registered in UNFCC as CDM Projects.

## CUSTOMIZATIONS

- Working with KIS enables customers to get tailor made solutions to suit their needs. Tell us what you need and we'll provide you a suitable solution.
- Knowledge Integration Services along with its group of associates can provide integrated, finance, technology and project management capabilities.
- At KIS we simplify the process to offer fully integrated solutions un- matched by others.
- This unique combination ensures most cost effective solutions for each customers needs.

## OFFICES

### HEAD OFFICE

#### INDIA

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