

PERFECT
ENGINEERING
SERVICES

STEAM ENERGY AUDIT

We are a steam energy company having more than 20 years of experience in this field. Due to our extensive customer interaction we have developed a reasonable expertise in the field of steam engineering and steam audit.



WHAT IS STEAM ENERGY AUDIT

Detailed engineered audit or checking of various aspects of steam and condensate systems with calculations and report, resulting into exploring of energy saving areas. We broadly cover the following activities:-

- Study the present process in details
- Based upon our observation, our client interaction, find out the industry standard with respect to steam consumption.
- Minutely study the process with respect to:-
 - Sizing & selection
 - types of valves & traps used and to be recommended
 - temperature & pressure profile at various critical locations.
 - physical measurement of the condensate discharge with respect to various processes
 - study & explore the various condensate and flash steam recovery system
- To analysis all the collected details/readings.
- To give final report on our study of the process as well as to provide all the possible avenues for maximum efficiency and minimum steam consumption

WHY IT IS REQUIRED

- Many times due to production load we ignore our steam consumption patterns.
- Industry standards with respect to steam consumption keeps changing, it is imperative that we always keep in pace with that.
- To know exact cost of production and related steam consumption.
- Rejections due to non- uniform heating and its effects.
- To know the exact relation between the production and steam consumption
- To find out and improve upon the flash steam and condensate recovery system.

SCOPE OF WORK

- Steam generation
- Steam distribution
- Steam utilization
- Condensate recovery

BENEFITS

- Exploration of minimum energy savings
- Study on how to enhance process efficiency by decreasing process downtime
- Failure analysis of particular steam component of plant and root cause analysis system.
- Involvement of plant team from utility, process for awareness of energy conservation in steam engineering
- Energy savings subjected to implementation of recommendations in energy audit report.

Trap Study

- Performance evaluation of existing trapping system with respect to process
- Identification and tagging of each trap
- Quantification of steam loss

Condensate and Flash Steam Recovery

- Study of present Condensate Recovery system
- Quantification of maximum possible recovery of condensate and flash steam
- Identification for the potential for the flash steam generation and Utilization

METHODOLOGY EMPLOYED

We deploy the experienced and expert team with:-

- Thermal imaging camera
- Fuel gas analyzer
- Compound pressure gauge
- TDS meter
- PH meter/strips
- Temperature gun

We firmly believe that engineering practice have to be cost effective and with the minimum payback period with this view we carry out above activity with the reasonable charges.

We look forward to receiving your valuable enquiry for our prompt action/offers.

OUR PRODUCTS



Thermodynamic
Steam Straps



High Pressure TD
Steam Straps



Bimetallic
Steam Straps



Inverted Bucket
Steam Straps



Safety Relief
Valve



Ball Float
Steam Straps



Condensate
Recovery
System



Thermal Relief
Valve



Liquid
Drain Traps



APT



Vacuum
Breaker



Thermostatic
Air Vent



Actuated
Ball Valve



Pneumatic
Cylinder



Ball Valve
(Manual)



Blowdown
Valve



Breather
Valve



Piston
Valve



Bucket
Strainers



Y Strainer



Diaphragm
Valve



Dual Plate
Check Valve



Gate
Valve



3 Piece
Ball Valve



Globe
Valve



Control Valve



Knife Edge
Gate Valve



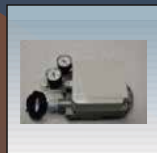
Needle
Valve



Swing
Check Valve



Wafer
Check Valve



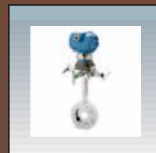
Electro Pneumatic
Positioner



Flame
Arrester



Flash
Vessel



Flow
Meter



Pneumatic Angle
Seat Control Valve



Moisture
Separator



PID Controller



Pressure
Gauge



RTD
Sensor



Sight
Glass



Spiral
Wound Gasket



Manifolds



Butterfly
Valve



Actuated
Butterfly Valve



Robotrol



Electromagnetic
Flow meter



Deluge
Valve



Flanges

HEAD OFFICE:

PERFECT ENGINEERING SERVICES

C-601, Badhwar Apartments, Plot No.3, Sector-6, Dwarka, New Delhi-110075

Ph: 011 - 28034280/81 | +91-9891016735 / +91-9350216735 | +91-9999991337 | +91-9811557391

vksood@perfect.org.in | sales@perfect.org.in | info@perfect.org.in | solutions@perfect.org.in

www.perfectengineeringservices.co.in