ENERGY SAVING TIPS TO CONSIDER, TO MAINTAIN AN EFFICIENT BOILER SYSTEM

Below are Energy Savings guidelines, which should be followed to achieve maximum efficiency.

The cost of Fuel today makes it important that all measures are taken to reduce Energy Loss.

- Make sure the Burner Combustion set up is done correctly for maximum Efficiency.
- Insulate all areas that are hot. Example: Feed water tank, Steam Lines, Condensate lines, Steam Headers.
- The Boiler Steam Drum and the Down Comer Tube at the front and the back of boiler should be insulated.
- The Boiler manual blowdown and automatic blowdown controller should be set to achieve control values specified by your Water Treatment specialist.
- Regular Burner Combustion checks should be done on the boiler, about every 6 months.
- All steam leaks should be repaired immediately.
- The Feed Water Tank should be monitored to maintain between 180 – 190 F temperatures. (If higher check traps for leaking or adjust steam heater)
- Pre Heat combustion air and have adequate air for combustion.
- Monitor water make up to make sure you are returning as much of condensate as possible. Loss of condensate water will mean higher energy, water & chemical cost.
- Repair any insulation that has been removed or damaged.
- Shut off steam going to areas that are not requiring steam any longer.
- Reduce steam pressure if possible, to the limits that are safe to operate the boiler.
- Make sure your water softener is always producing soft water. Remove boiler scale.
- Run Boilers sized to load. Oversized boilers have higher Radiation & Purge losses.
- Purchase boilers which have a burner with a high turndown ratio, to minimize Purge Loss.
- Reduce Wet Steam by controlling Boiler blowdown effectively.
- Recover Flash steam and pre heat Feed Water
- Repair steam leaks and carry out regular steam trap maintenance.