

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.