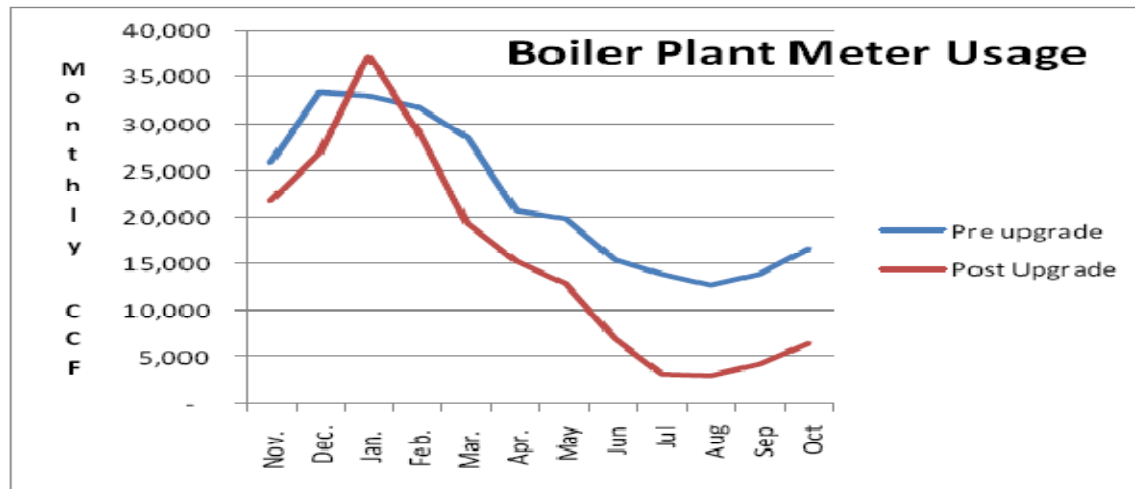


# Boiler Combustion Improvement Project

## Scope

- Replacement of burners/controls on (2)300 HP Cleaver Brooks Boilers.
- Autoflame controller provides independent micro modulation of air, fuel valves, and dampers. *(Like Electronic Fuel Injection on your car)*
- EGA- Exhaust Gas Analyzer provides continuous combustion monitoring to the Mark 6 controller. *(Like Cruise control on your car)*
- Limpsfield Low O<sub>2</sub> Burners replace Cleaver Brooks burner/linkage.

## Projected Results



- After 1 full year of Data = **29% gas reduction**
- Fuel Savings= 76,428 Therms = 2,239,349 kWh
- Cost Savings= \$ 107,000 & GHG Reduction= 382 mTons of CO<sub>2</sub>
- Project Cost= \$190,000 with a Utility Incentive= \$91,000
- Simple Payback= 0.9 yr Simple Payback
- Installed (4) additional systems in 09'-standardize all sites in future



**Before**  
**Cleaver-Brooks Controls**



**After**  
**Mark-6 Controller and EGA**