



BOILER OPTIMIZATION

Saves Fuel, Improve Efficiency, Reduce Energy loss, & optimize the Boiler



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Boiler Fuel Consumption Optimization

Increasing fuel cost in boiler application force the user to adapt Boiler Fuel Consumption Optimization. We are monitoring the boiler various parameters and optimizing the fuel – air requirements and we save the fuel enormously.

KPI

- Excess Air in flue gas%
- Feed water temperature
- Stack temperature
- Un burnt fuel
- Number of Boiler ON/OFFs
- Scaling on tubes
- Soot Deposition
- Blow down TDS
- Moisture in Fuel

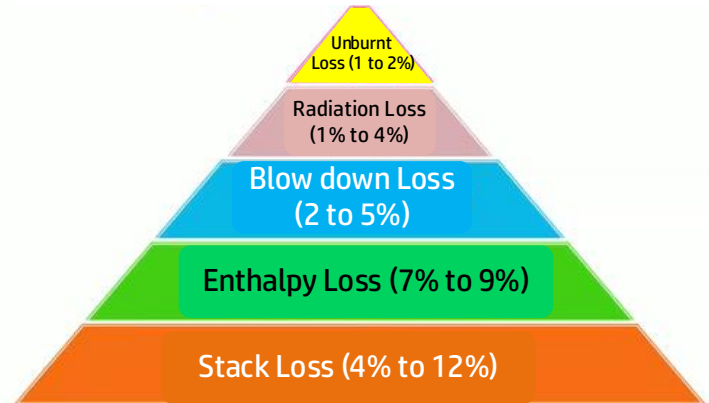
OUTPUTS / DELIVERABLES

- Loss due to dry flue gas (sensible heat)
- Loss due to hydrogen in fuel (H₂)
- Loss due to Moisture in fuel (H₂O)
- Loss due to Moisture in air (H₂O)
- Loss due to Carbon monoxide (CO)
- Loss due to surface radiation, convection & other unaccounted
- Unburnt losses in Fly ash (Carbon)
- Unburnt losses in bottom ash (Carbon)

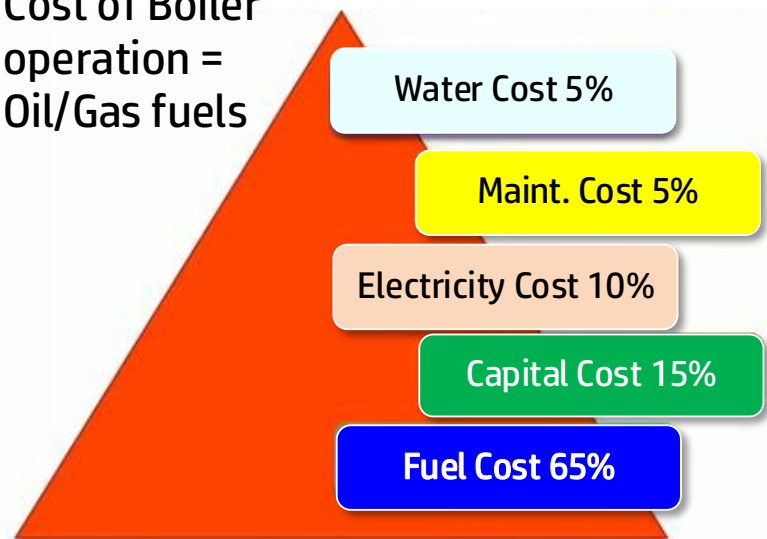
BENEFIT'S - VALUE

- Reduce down time through effective monitoring and recommendation for early maintenance.
- To improve efficiency by reducing power consumption through real-time monitoring and control
- Automatic condition predicting will leads to reduced skill level, improving intelligence and reducing down time
- Predicting failure and forecasting - eliminates costly repair charges
- Database recording and retrieval leads to complete transparency
- Improving flexibility of existing technologies without compromising the components' lifespans
- Developing control systems for hybrids

Energy Loss Breakup in Boilers



Cost of Boiler operation = Oil/Gas fuels



Typical Energy Balance of a Boiler before Improvements

