

Boiler energy conservation tips



- Remove soot deposits when flue gas temperature raises 400C above the normal. A coating of 3mm thick soot on the heat transfer surface can cause an increase in fuel consumption of as much as 2.5%.
- Recover heat from steam condense. For every 60C rise in boiler feed water temperature through condense return, there is 1% saving in fuel.
- Improve boiler efficiency. Boilers should be monitored for flue gas losses, radiation losses, incomplete combustion, blow down losses, excess air etc. Proper control can decrease the consumption upto 20%.
- Use only treated water in boilers. A scale formation of 1mm thickness on the waterside would increase fuel consumption by 5-8%.
- Stop steam leakage. Steam leakage from a 3 mm-diameter hole on a pipeline carrying steam at 7kg/cm² would waste 32 kl of fuel oil per year amounting to a loss of Rs. 3 Lacs.
- Maintain steam pipe insulation. It has been estimated that a bare steam pipe, 150 mm in diameter and 100m in length, carrying saturated steam at 8kg/cm² would waste 25 kl of furnace oil in a year amounting to an annual loss of Rs. 2.5 Lacs.

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