



# *Enerfacts Technical Bulletin 111*

## **How ENERCON Can Help Reduce Your Energy Budget**

### **X EXCESSIVE BLOW-DOWN REPRESENTS MONEY DOWN THE DRAIN**

Water used in boilers can be “concentrated many times. According to boiler manufacturers’ recommendations, this “concentrated” water is maintained at a predetermined level by blowing-down the boiler...opening a valve and “blowing” hot water down the drain. We frequently find boilers; which are being blown-down excessively. This unnecessary loss of hot water translates directly into a waste of fuel, chemicals and water.

*Example:* Reducing the blow-down rate of a 75 psi boiler producing 12,000 lbs. of steam per hour, by just 5% results in fuel savings of over \$3,000 per year.

### **X SCALE MEANS WASTED FUEL DOLLARS**

Scale with a thickness equal to that of an “eggshell” will increase fuel consumption.

*Example:* A boiler with just 1/16” of scale on the tubes will increase your fuel bill nearly 6%. This would amount to \$6,000 on a yearly fuel bill of \$100,000. Properly treating and controlling your boiler water will keep tubes free of deposits; which rob fuel efficiency.

### **X CORROSION COSTS...OBVIOUS AND HIDDEN**

The destructive effects of corrosion are obvious on condensate pipes, boiler internals and other steam/condensate related equipment. The cost of replacement is usually in the thousands of dollars and not always considered in the budget.

There is also a “hidden” cost associated with corrosion...the loss of heat transfer that results from corrosion products migrating from the corrosion site to the boiler where they can form insulating deposits. Corrosion or iron deposits on heat transfer surfaces reduce boiler efficiency even more than mineral scale deposits.

**✓ Contact ENERCON WATER TREATMENT LTD. for information on how to protect your particular system.**

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