



## Case Study

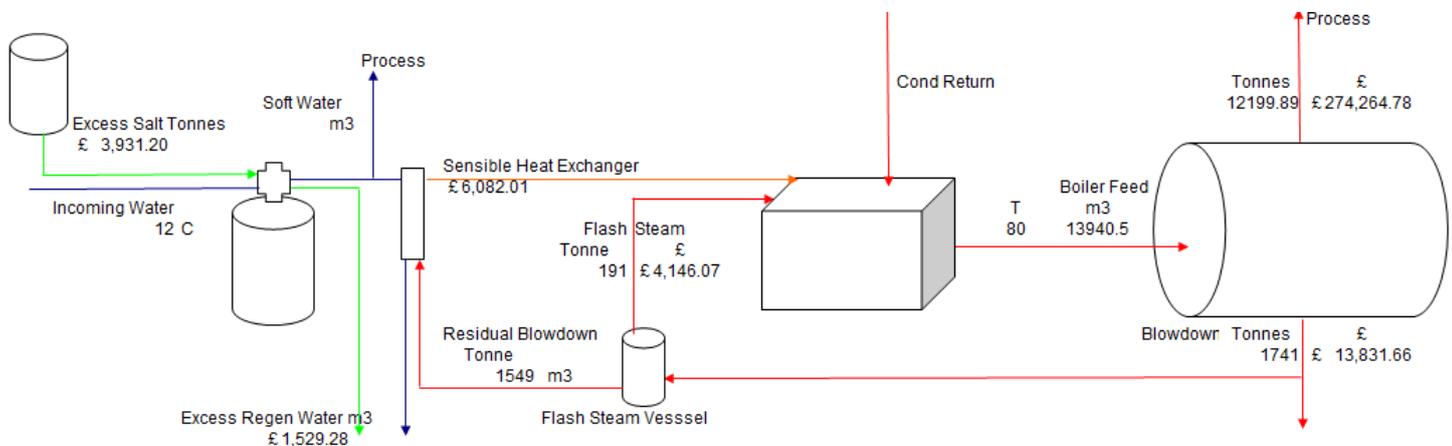
ESC Global believes inefficiencies of boilers and components associated with the entire system cause unnecessary costs. These are easily rectified. We have developed a specific data efficiency analysis tool (DEAT). This uses actual data collected from the systems to identify specifically which areas are impacting on overall efficiency and cost. Our DEAT has the capability to identify optimal solutions.

We have used the DEAT at multiple clients with a range of boilers. This analysis has yielded positive results.

For example the DEAT identified that the softener a textiles company we service was running at a 72% salt efficiency and an 85% regeneration efficiency. This was incurring an additional unnecessary spend of almost £5,500.00 annually.

Using the DEAT we identified potential saving if the company was to introduce a flash steam recovery and heat exchange recovery system. The flash steam recovery system will be designed to use the steam lost during system blow down. The heat exchange system uses the blow down to pre heat the water entering the hot well. Implementing these recommendations the client is expected to save over £10,000.00 this year.

This diagram 1 - Site boiler running cost and the extra cost associated with inefficient equipment and potential made by sensible adaption



We have a number of effective boiler treatment chemicals all of which can be modified to suit specific client and system requirements. One chemical which we use extensively throughout the group is ESC 456. This product is a specifically formulated liquid with multifunctional deposit and scale inhibition qualities designed for single treatment systems. ESC 456 will effectively control and prevent scale deposits on heat transfer surfaces and maintain heat transfer efficiency. This chemical is particularly effective in steam systems where feed water conditions are not optimal and will also help clean existing deposits throughout the system.

Every site is unique and our service packages are bespoke. All recommendations are made after site specific analysis in consultation with the client to meet clients needs and provide excellent customer service and solutions.



**ESC GLOBAL Ltd**  
WATER TREATMENT SOLUTIONS

Picture 5 – Heat transfer surfaces before ESC polymer technology



Picture 6 – Heat transfer surfaces after using ESC polymer technology

