

STEAM LINK[®]

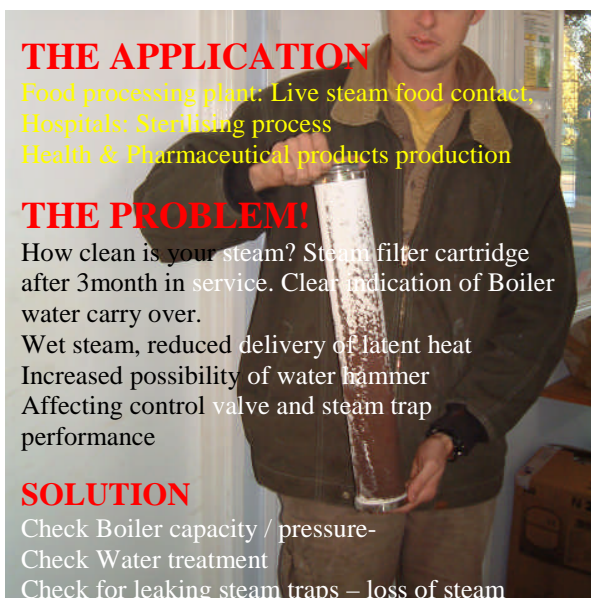
'STEAM SYSTEM PERFORMANCE REPORT'[©]

Steam efficiency; reduce cost, improve production capacity

WE HAVE THE SOLUTIONS TO GET YOU THERE

All of the measures needed to promote energy efficiency already exist; they just need to be implemented! Figures by the U.S. Department of Energy indicate that 45% (2006 Data) of energy used in the USA is attributed to steam production and that the introduction of simple improvements in maintenance of the steam system can lead to **at least 20% savings and improved process performance, reduced carbon emission comes as a bonus.**

One of the biggest issues in achieving energy efficiency is the lack of plant intelligence. Plant intelligence is accessible information that is grouped in a meaningful way, allowing a clear picture to be formed of how your plant is performing. We notice the absence of plant intelligence to be alarmingly present in most companies we visit, including leading companies whom you think would have the correct systems in place. The result of not implementing plant intelligence is the situation where the procurement cost overrides the process performance requirement, resulting in higher production costs and reduced energy efficiency.



THE APPLICATION

Food processing plant: Live steam food contact
Hospitals: Sterilising process
Health & Pharmaceutical products production

THE PROBLEM!

How clean is your steam? Steam filter cartridge after 3 months in service. Clear indication of Boiler water carry over.

Wet steam, reduced delivery of latent heat
Increased possibility of water hammer
Affecting control valve and steam trap performance

SOLUTION

Check Boiler capacity / pressure-
Check Water treatment
Check for leaking steam traps – loss of steam

The above statements are applicable to all steam plant installations, we referring to the official website of the US Department of Energy to enforce the claim that up to 20% of steam energy is wasted through relaxed or delayed maintenance. The impact of an unpredictable steam system on production cost could also be in double digit figures, you do not know, as there is no reference data in place. That's why we recommend that every steam installation should be thoroughly inspected and all information recorded, preferable by Steam Link. Our specific developed database template, the 'STEAM LINK PERFORMANCE REPORT', we visit your plant, check and record the complete steam system. After all data is entered and analysed you have access to accurate up to date process steam system information. You will be able to identify any problem or critical process equipment and check supply capacity against today's demand.

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Most companies are suffering from the current employment trends where key employees are transient and are becoming more difficult to find. In former times plant operators had intricate knowledge of the production processes, but all of this is changing as employees with this work experience are reaching retirement age and leaving the industry. Solution to this problem lies in implementing systems which are simplified and hard coded in the processes which can not be altered by inexperienced staff. The first step in this process is to bring your plant up to an efficient and measurable performance standard which then becomes the benchmark against which the performance systems are calibrated and compared in the management systems.

We at **Steam Link** can help you bring your plant up to its design parameters and with the addition of modern control equipment even exceed the original design goals.

Now that the plant is performing to a measurable baseline it becomes an easy exercise to maintain energy efficiency, lock in the savings which already exist in your plant and easily achieve your obligations under the coming mandated carbon production ceilings. As your plant is operating efficiently your cost of production comes down, reducing the cost base enables you to sell your products for less with the same margin. This increases your competitiveness which in turn lift your market share, the more your plant can produce the fixed cost per unit go down.

The payoff from energy efficiency is not just the dividend from reduced energy bills it also directly impinges on your overall profit potential by being more competitive in the market.

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EFFICIENCY - PERFORMANCE - SOLUTIONS