

Maximising Energy Efficiency of Steam Traps

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- Steam traps are essential for heating, sterilisation, and various processes across the Pharmaron Biologics site.
- In partnership with Spirax Sarco, we identified 18% of our steam traps which were not opening/closing efficiently due to wear and tear. Parts were replaced or serviced to address this.

Environmental saving identified



- Repaired and cleaned traps have resulted in a significant reduction of 24.8 tonnes of CO₂ emissions and 164.2 tonnes of steam annually!
- Through these improvements, we are reducing our water and energy usage, directly supporting our net zero targets and contributing to a greener future.

Financial savings



- Currently, this maintenance work is expected to save over £6K in utilities costs each year.
- Including the lost energy costs, the return on investment of the survey and repairs was only 9 months. Further savings have been achieved by bringing monitoring and maintenance in house.

Considerations during implementation



- Total number of steam traps on-site, and type.
- Post implementation, we have brought the testing in-house using ultra-sonics for improved trap monitoring. This enables pre-emptive maintenance and reinforces our culture of sustainability and operational excellence.