

**16%** of the steam you generate is lost to leaks



## Value



### With Diversey SteamCheck you can:

- Improve your steam utilisation
- Measure and trace all sources of steam waste
- Determine whether incremental improvements will improve efficiency
- Prioritize areas of improvement and take action
- Benchmark your business against industry performance using Diversey SteamCheck's analytic tools

## Challenge

Thermal energy and steam are primary resources for your business. Harnessing steam is critical and losses in the distribution system negatively impact both your cost of production and sustainability.

The U.S. Department of Energy estimates that 15-20% of installed steam traps fail if they do not receive maintenance every 3-5 years. The impact to your business? On average 16% of the steam you generate is lost through leaking steam traps, pipes, or valves within the distribution system\*. This negatively affects the cost of generation and the load put on your boiler and distribution system.

## Solution

Using Diversey SteamCheck, we will help you to improve the reliability of your steam system, create a safer environment for employees, and identify steam losses that, when addressed, will lead to energy savings with low capital investment.



## Process

With Diversey SteamCheck's steam trap survey you will identify costly losses within the steam distribution system.

Failed steam traps, or those opening too rapidly have a large impact on your operational resources including:

- Increased energy use and fuel bills
- Higher emissions
- Increased water, chemical treatment and effluent charges
- Inefficient transfer of heat exchanger steam
- Loss of steam pressure
- Thermal losses in condensate return system

When you work with Diversey to implement SteamCheck, we will test your steam generation and distribution system with ultrasonic equipment to identify each of your steam traps and determine its operation.

On completion you will receive an analysis report:

- Listing each steam trap on your site (make/model)
- Identifying operation status and baseline information
- Calculating your losses for leaking/blowing steam traps
- Identifying other non-conformities in your steam distribution system that may include other losses to the system
- Benchmarking your performance against industry standards

Your operational efficiency and total cost of ownership will be positively impacted as a result of Diversey SteamCheck's clear, structured process that identifies and prioritises improvement actions.



## Diversey Services

SteamCheck is one solution within the Diversey portfolio of Knowledge-based Services. These services are designed to help you address food safety and operational efficiency challenges while reducing total costs. Our application specialists carry out a systematic CHECK, so you will have confidence that the service will deliver real value to your operations. Then, our monitoring services will collect the data for you to benefit from a detailed initial and on-going ANALYSIS of your performance against historic and industry benchmark data. Because the result is a tailored action plan, which can then be implemented with help from the Diversey team, you'll be able to SOLVE critical challenges that will help you make the biggest impact on improvements.

## Case study



### Location:

Large brewery in Italy

### Challenge:

Excessive utility costs attributed to the steam generation process.

### Solution:

The Diversey SteamCheck process and the resulting implementation of recommendations saved the brewer energy costs, improved the integrity and safety of the steam system, and improved the efficiency of the boiler.



60

steam traps

12

failed steam traps

8M

kg/steam per year saved

\$80k%

annual savings

When you initiate an SteamCheck, our sector specialists won't be satisfied with just providing a report – they will help you maximise ROI and optimize your savings and efficiency best by working with you as a partner to define, implement and manage projects. Contact us today to get started:

[www.Solenis.com/diversey-kbs](http://www.Solenis.com/diversey-kbs)



\*US Department of energy [http://www.energy.gov/sites/prod/files/2014/05/f16/steam1\\_traps.pdf](http://www.energy.gov/sites/prod/files/2014/05/f16/steam1_traps.pdf)

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