

Global Pharmaceutical Company



 Pharmaceuticals
  Italy
  GEM Steam Traps

Overview

This customer achieved a 12-month payback on the 92 GEM Traps installed at its manufacturing facility in Italy. The steam traps installed throughout the process plant have eliminated the problems of mechanical steam trap failure and high maintenance costs.

Impact

- ▶ 12-month payback on energy saving
- ▶ Over £27,000 in steam savings each year
- ▶ Reduced scheduled and unscheduled maintenance
- ▶ Faster start-up time
- ▶ Decreased CO2 emissions by 131 tonnes

Solution

This facility is the customer's hub of technology, innovation and the development of pharmaceutical product, and is considered a very important site.

Thermal Energy International was asked to conduct a survey of its mechanical traps, which were regularly failing open, partly open and closed, necessitating both scheduled and unscheduled maintenance.

To corroborate its findings, Thermal Energy International undertook a metered test on a process application and then carried out a positive bucket test.

The report on the 51 steam traps surveyed found that 30% had failed, resulting in an estimated 757 tonnes of steam being lost each year at a cost of over £27,000.

As a result of the project, the customer would not only be saving energy and maintenance costs, it would also reduce its start-up time and decrease CO2 emissions by 131 tonnes.

All mechanical traps installed on industrial steam and some clean steam applications including PSG, distillers, air conditioning units and heat exchangers have since been replaced with appropriately sized GEM Traps. Moreover, the customer plans to install additional GEM Traps as further improvements are made at the manufacturing facility.



- ▶ GEM™ steam traps are the most efficient and reliable steam traps on the market
- ▶ A permanent, low maintenance steam trapping solution With no moving parts to break or fail
- ▶ Implementation of the technology typically reduces steam costs by 10% to 20%
- ▶ Average payback ranges from one to two years