

ITALCABLES SPA Cepagatti, Italy



Benefits

- Eliminated cost of replacing failed traps
- 12-month payback on energy saving
- Highly reliable - 10 year no fail guarantee
- Steam savings of between 20 – 30 %
- Significantly lowered condensate temperature

GEM® Traps Retrofitted to Steam Baths & Kettle Boiler

Metered tests carried out on Thermal Energy International's GEM steam traps by Italy's largest producer of wire strands for pre-stressed concrete and post-tensioned structures, have shown steam savings of up to 30% compared to mechanical traps. Now, the company has fitted GEM traps to its steam baths and kettle boiler used for 'pickling' and treating iron wire strands within production process.

Steam is a primary energy source at the company's facility in Cepagatti, Eastern Italy and a major cost in the production process. As the site's mechanical steam traps regularly failed, resulting in lost steam, reduced performance and additional expenditure, Energy Manager, Mr. Rizzinelli, was interested in conducting a metered trial to validate the energy savings made with GEM.

The mechanical traps fitted to the steam baths and kettle boiler were replaced by the GEM venturi design and steam meters utilised to test their performance. The results showed that the GEM traps were reducing steam consumption by between 20 and 30 percent.

"I decided to carry out monitored tests to quantify the amount of steam that could be saved with the GEM traps and whether there would be a reduction in condensate. The test results together with the steam meter readings have proved that the GEM traps save energy and operate well over a wide range of condensate loads. The fact that such a small device can obtain such important savings and provide a fast payback is really good news. Thermal Energy International supported us throughout the project and we hope to continue this collaboration at other sites and with other projects."

Energy Manager, Italcables S.p.A.